



UO GUELPH

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U of G Hosts PIXE Talks

Conference draws scientists from around the world

IMAGINE BEING able to trace Galileo's thought process as he worked out the law of free fall motion, or to glean clues to climate change from invisible particles suspended in the air.

These are the gifts of PIXE, or particle-induced X-ray emission, an analytical technique that is drawing 120 scientists from around the world to Guelph this week.

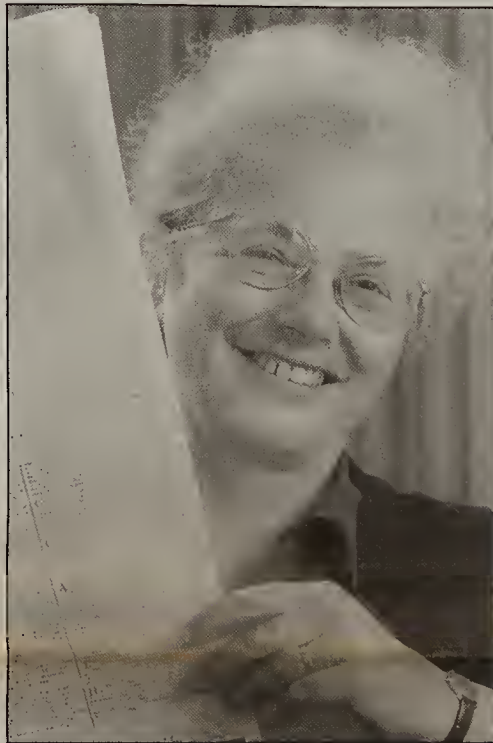
The Ninth International PIXE Conference, hosted by U of G, will focus on the fundamental science of the technique, new developments and applications.

PIXE enables researchers to pinpoint the distribution of elements in a specimen to understand questions in diverse fields such as atmospheric science, geology, biology and medicine, art and archeology.

"It shows you not just what's there, but also what it is and what's associated with it," says Prof. Iain Campbell, Physics, the conference co-chair.

One of the presentations at the conference is an analysis of the inks from Galileo's manuscripts that enables researchers to put the folios in chronological order. The Italian and American scientists working on the project compared the concentration of metals in the inks to determine the sequence in which Galileo jotted

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History professor Donna Andrew says newspaper historians need good eyesight and must be "slightly crazy." PHOTO BY MARTIN SCHWALBE

Looking for a Juicy Story? Read the Newspaper

Society's hunger for sensationalism is nothing new

IDENTICAL TWIN BROTHERS are seduced by a beautiful young woman, who lures them into a complex forgery to finance an opulent lifestyle among the elite of British society. When their scheme finally unravels, the court trials of Margaret Rudd and the Perreau brothers feed a public hunger for sensationalism. All three try to manipulate the judicial system, the press and public opinion; only one escapes the gallows.

This is a crime story filled with greed, scandal, deceit and mystery. It could be a new novel or a movie script, but it's actually a 225-year-old story that seduced Londoners for almost a year. U of G history professor Donna Andrew says Rudd's conspiracy attracted as much press coverage in 1775 as did the threat of war in the American colonies.

Andrew might welcome some of that media attention now as she publishes a new book about the re-

markable court case. Critics have already rated *The Perreaus and Mrs. Rudd* as a micro-history that will attract attention beyond an audience of historians interested in 18th-century England. Crime writers, journalists, economists, politicians and legal historians may also find valuable insights in the book, which will be published by the University of California Press in August.

Andrew and co-author Randall McGowen of the University of Oregon tell an engaging story as they delve into the ripple effect the forgery had on British society. Their research looks at the way this crime and its punishment shaped the cultural history of an important period of English capitalism.

The story first came to light in the London newspapers when Robert Perreau was detained for trying to negotiate a forged bond in March 1775. He was arraigned with his

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Coming Home

1,000 grads expected for Alumni Weekend 2001

DECADES of University of Guelph history will come into focus this month as alumni gather for Alumni Weekend 2001 June 15 to 17. This year's theme is "Through the Lens of Time." The event is expected to draw more than a thousand Guelph graduates to campus to share memories and traditions and to celebrate the past, present and future of their alma mater.

This year marks the 35th anniversary of the U of G Alumni Association (UGAA), which was established Dec. 13, 1966, two years after the founding of the University. The first president was 1937 OAC graduate Gordon Nixon, who remains an active volunteer with the University to this day.

The UGAA will mark its anniversary at its annual general meeting June 16 at 3 p.m. at the Macdonald Stewart Art Centre, to be followed by a wine-and-cheese reception. The association will also celebrate the occasion by presenting a plaque at the annual President's Luncheon, which begins at noon in the Gryphon Dome.

The luncheon will also be the occasion for the presentation of three annual alumni awards to outstanding U of G graduates. This year's Alumnus of Honour is Ken Hammill, a 1951 graduate of OAC. The Alumni Volunteer Award goes to former OAC dean Clay Switzer, a 1951 and 1953 graduate of OAC. The 2001 OVC Distinguished Alumnus is 1949 graduate and retired faculty member Jim Archibald (see page 3 for profiles of the recipients).

In addition, two plaques will be unveiled at the luncheon recognizing two heritage buildings on campus, Creelman Hall and Mills Hall. Donated by 1969 CPES graduate Martin Bosch and 1970 OAC graduate Ginty Jocius, the plaques mark the first in a long-term commemorative history project that will review the almost 80 named buildings on campus and provide plaques to recognize the University leaders they honour.

A tree and bench dedication will be held Saturday at 3 p.m. in memory of Prof. John Powell, U of G's first director of human kinetics, who died Oct. 31, 2000, at the age of 81. The dedication outside the Mitchell Athletics Centre will be followed by a wine-and-cheese reception in the Powell Building, hosted by the human kinetics/human biology and CBS alumni associations.

Other weekend events include OVC's annual C.A.V. Barker Symposium on Canadian Veterinary History, which runs Friday from 10 a.m. to 4 p.m. in Room 1715 of the OVC Lifetime Learning Centre.

Named for OVC historian and retired professor Cliff Barker, the free symposium will feature talks by Profs. Ian Barker and Bryan Derbyshire, Pathobiology; Philip Teigen of the National Library of Medicine at the Harvard School of Veterinary Medicine; veterinary pathologist and historian Thomas Dukes; former OVC dean Ole Nielsen; and retired OVC professor Donald Barnum. The symposium will also include a visit to OVC's C.A.V. Barker Museum of Canadian Veterinary History.

Also on Friday, the Mac-FACS Alumni Association is sponsoring a series of "Food for Thought" seminars from noon to 5 p.m. at the Springfield Golf and Country Club. Speakers are Deborah Whale, vice-president of Clovermead Farms Inc., who will discuss "Putting Food on Your Plate"; Anita Stewart, founder of Cuisine Canada, on "Distinctly Canadian Food"; Lois Ferguson, president of Malibu Consulting International, on "Eating for Energy and Ecstasy"; and home economist Shirley Ann Holmes on "The Mysteries of Food Styling." Cost of the series is \$50.

The Mac-FACS Alumni Association is also sponsoring a dean's tea and building tour Saturday at 2:30 p.m., following its annual meeting. Guests will be served tea on the original china and silver from early college days. Prof. Alun Joseph, dean of the College of Social and Applied Human Sciences, will lead a tour of the FACS Building.

The College of Arts Alumni Association will host a recognition reception Saturday at 10:30 a.m. in the MacKinnon Building courtyard in honour of retiring dean Carole Stewart and association president Margo Shoemaker, who steps down from her role this summer.

Special class projects to be recognized Saturday are the OAC '56 Park in the Garden, which will be opened at 11 a.m. at the Arboretum, and the OAC '71 project to wire Mills Hall for computer access. Members of OAC '71 and OAC '72 will meet at 3 p.m. to tour Mills Hall and launch a new joint 30th-anniversary project.

For more information about Alumni Weekend, contact Ext. 6544 or alumni@uoguelph.ca.

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Late Funding News Compresses Campus Budget Consultations

THE EXTRAORDINARILY late funding announcement for Ontario universities made by the provincial government May 9 has necessitated a compressed budget consultation process for U of G's 2001/02 Ministry of Training, Colleges and Universities (MTCU) operating budget.

The consultation process in-

cludes review of the draft preliminary operating budget by the Vice-President (Academic)'s Council, the Senate Committee on University Planning, Consultative Forum and the Student Budget Advisory Group, which was expanded to include members from the Central Student Association, Graduate Students' Association and Student

Senate Caucus.

The document will then be considered by Senate at its regular meeting June 12. Following a budget presentation to Board of Governors at its June 14 meeting, highlights of the preliminary MTCU operating budget for 2001/02 will be reported in the June 20 issue of @Guelph and posted on the University Web site.

Senate Approves Changes to Honorary Degree Process

AT ITS MAY MEETING, Senate accepted recommendations contained in a report from the Graduation and Ceremonials Subcommittee about the nomination and selection of the University of Guelph's honorary degree recipients.

The report's five recommendations include the following: that nominations for honorary degree recipients be sought more actively and encouraged from a wide range

of campus constituencies; that nominations be accepted at any time, not just twice a year; and that Senate establish a standing committee on honorary degrees with members representing a range of disciplines and fields.

This new committee would present Senate with a slate of honorary degree candidates for senators to consider, ensuring that the slate reflects balance and diversity among the nominees. Currently, the Senate

Committee on Honorary Degrees first vets nominations and forwards them to the Executive Committee, which in turn forwards nominations to Senate.

Earlier this year, the Graduation and Ceremonials Subcommittee was asked to review the University's process for nominating and selecting honorary degree candidates in response to concerns that the current system is not as inclusive or as effective as it should be.

APPOINTMENTS

Harald Bauder of the University of British Columbia has been appointed assistant professor in the Department of Geography, effective July 1.

Dean Betts will join the Department of Biomedical Sciences as an assistant professor Oct. 1.

Prof. Ward Chesworth has been appointed acting chair of the Department of Land Resource Science, effective May 1 to Aug. 30, 2001.

Joseph Colasanti of the University of California, Berkeley, will join the Department of Molecular Biology and Genetics as assistant professor Oct. 1.

John Dawson of the Stanford University School of Medicine will join the Department of Chemistry and Biochemistry as assistant professor May 1, 2002.

Alison Duncan joined the Department of Human Biology and Nutritional Sciences as an assistant professor June 1.

Prof. Glenn Fox has been appointed acting chair of the Department of Agricultural Economics and Business, effective May 1 to April 30, 2002.

Will Gortitz of Kitchener will join the School of Fine Art and Music as an associate professor Aug. 1.

Amit Gupta of the College of Medicine at the University of Illinois at Chicago has been appointed assistant professor in the Department of Microbiology, effective Sept. 1.

Prof. Ron Hinch has been reappointed chair of the

Department of Sociology and Anthropology for a four-year period that begins June 1, 2002.

Todd Mattina of Queen's University has been appointed assistant professor in the Department of Economics, effective July 1.

Judith McKenzie of Toronto has been appointed assistant professor in the Department of Political Science, effective July 1.

Roger Moorhead of the Ontario Cancer Institute will join the Department of Biomedical Sciences as an assistant professor May 1, 2001.

Troy Riddell of Calgary has been appointed assistant professor in the Department of Political Science, effective July 1.

Vivian Shalla of Ottawa will join the Department of Sociology and Anthropology as an assistant professor July 1.

Henry Thille of the University of Winnipeg has been appointed assistant professor in the Department of Economics, effective July 1.

Prof. Ken Woodside has been appointed chair of the Department of Political Science for a five-year period that began May 1.

Wanhong Yang of Sir Wilfred Grenfell College at Memorial University of Newfoundland will join the Department of Geography as an assistant professor on July 1.



Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
l.graham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Acting Director Chuck Cunningham
ccunning@registrar.uoguelph.ca

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COLLEGE OF ARTS DEAN APPOINTED

President Mordechai Rozanski has accepted the recommendation of the search committee for the dean of the College of Arts and will recommend to Board of Governors that Jacqueline Murray, a professor of history and director of the Humanities Research Group at the University of Windsor, be appointed dean of the college effective September 2001. Until then, Prof. Carole Stewart has agreed to stay on as dean. A profile of Murray will appear in a future issue of @Guelph.

ACTING DIRECTOR NAMED

Registrar Chuck Cunningham has agreed to serve as acting director of Communications and Public Affairs, effective June 4, while the University conducts a search for a new director to replace Darlene Frampton, who has left the University to join the Ontario Trillium Foundation in Toronto. During the search period, associate registrar Brian Pettigrew will serve as acting registrar.

U OF G CAPTURES FOUR CCAE AWARDS

U of G has won four awards — two gold, one silver and one bronze — in the national competition sponsored by the Canadian Council for the Advancement of Education. Guelph received gold medals for best institutional home page, designed by University Web master Stuart Robertson, and for best new idea — creativity on a shoestring, for a series of alumni newsletters produced by Mary Dickieson in Communications and Public Affairs. Alumni Affairs and Development received a silver medal for best program prospect research, headed by Richard Manning. A bronze medal for best newspaper went to @Guelph, which is edited by Barbara Chance and designed by Peter Enneson.

STAFF MEMBER ELECTED

Michael Mandeville, a building mechanic in Physical Resources, has been elected to Board of Governors, to hold the seat for a full-time permanent, non-teaching employee of U of G. The appointment, which is to be confirmed at the June 14 meeting of B of G, is for a three-year term that begins July 1.

IN MEMORIAM

Beverly Mascoli, a member of Board of Governors from 1994 to 1997, died May 16 in Toronto at the age of 59. Mrs. Mascoli founded Mascoli Beauty Supply Ltd. in 1970 to cater to the needs of black consumers. It eventually became one of Canada's largest distributors of beauty products for both the ethnic and mainstream markets. She was named a member of the Order of Canada in 1998. Mrs. Mascoli is survived by her husband, Emerson, and one son, Eldon.

Three Distinguished Grads to Receive Honours at Alumni Weekend 2001

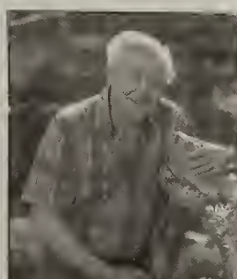
UGAA, OVC recognize contributions to University, community, profession



Ken Hammill



Clay Switzer



Jim Archibald

THREE OUTSTANDING U of G alumni will be honoured during Alumni Weekend June 15 to 17. The Alumnus of Honour award, which recognizes individual contributions to the University, the city of Guelph and to Canada, will be presented to Ken Hammill, a 1951 graduate of the Ontario Agricultural College, who will celebrate the 50th anniversary of his graduation during the weekend.

Former vice-president and general manager of Blount Canada Ltd., Hammill was also a member of city council for 28 years, served on the University's Board of Governors and was elected for an unprecedented three terms to the National Research Council.

He was also vice-chair of a capital campaign that raised \$1.58 million to establish the Macdonald Stewart Art Centre and has played a leading role in all subsequent fund-raising initiatives for the centre, including the campaign for the Sculpture Park in 1983. He also secured the sponsorship of Blount Canada (formerly Omak Canada) to help the art centre develop an Inuit art collection. Since 1980, the company has donated more than \$100,000 in acquisition and capital funds, helping to create one of the most important Inuit drawing collections in the world.

Hammill also represented city council on the art centre board for many years. His other council roles focused on parks and recreation; he worked with the Grand River Conservation Authority and was instrumental in securing protection of the Hanlon Creek Watershed.

In recent years, he has supported Guelph efforts in hospital redevelopment and has chaired a provincial task force on the expansion of Highway 6 and the fund-raising campaign for the YMCA-YWCA.

The 2001 Alumni Volunteer Award goes to Clay Switzer, whose volunteer work with the University began 50 years when he was elected secretary/treasurer of his OAC '51 class. He still fills that role, but his range of influence has expanded greatly over the years to include leadership roles in both OAC and U of G alumni associations. He has also been a class agent for the Annual Fund for the last 10 years and chaired the fund-raising committee for the conservatory restoration project, as well as encouraging OAC '51 to sponsor a garden.

Alumni involvement was a priority during Switzer's tenure as a faculty member in the Department of Botany in the 1960s and his 11 years as dean of OAC. He supported campus-wide alumni events, maintained connections with OAC graduates and helped build the Aggie spirit in students.

He carried the Guelph banner into his role as deputy minister of agriculture for Ontario from 1984 to 1989 and while serving as president of the Ontario Institute of Agrologists, the Agricultural Institute of Canada and the International Turfgrass Society. After his retirement, Switzer volunteered to raise funds to establish the Turfgrass Research Institute in Guelph.

He has served as president of both the Ontario Agricultural Hall of Fame and the U of G Alumni Association. Most recently, he co-chaired OAC's 125th-anniversary committee.

Switzer was previously recognized by the University as an honorary fellow and Alumnus of Honour and is a member of the Canadian Agricultural Hall of Fame.

This year's Ontario Veterinary College Distinguished Alumnus is Jim Archibald, who graduated from OVC in 1949 and immediately accepted a faculty position at the college.

Over his 37-year career, some of the most extraordinary 20th-century advances in veterinary medicine took place, and many of them were the direct result of his foresight and talent as a surgeon.

Archibald insisted on using sterile surgery practices and demanded that a proper operating suite be constructed at OVC. The young professor won the support of college deans Andrew McNabb and Trevor Lloyd Jones, and the result was better patient care and expanded services in both small- and large-animal surgery. With OVC colleague Harry Downie, Archibald pioneered work in animal heart and kidney transplants that led to techniques later used in human medicine.

During his career, Archibald served as chair of the Department of Clinical Studies, director of Animal-Care Services, acting associate dean of research at OVC and a member of Board of Governors.

He was published extensively in veterinary journals, edited two editions of the textbook *Canine Surgery* and co-authored a text titled *Experimental Surgery*. His many honours include election to the Royal College of Veterinary Surgeons in England, being named University professor emeritus at U of G and receiving the Order of Ontario.

The James Archibald Small-Animal Clinic at OVC provides an ongoing legacy of his influence in bringing small-animal practice into the mainstream of the veterinary profession.

Library Hours Set for Summer

DURING THE SUMMER semester, the McLaughlin Library is open from 8:30 a.m. to 10 p.m. Monday to Friday and noon to 10 p.m. on weekends and holidays. The OVC Learning Commons is open 8:30 a.m. to 10 p.m. Monday to Thursday, 8:30 a.m. to 5 p.m. Fridays and noon to 5 p.m. on weekends. It is closed on holidays.

During the between-semester period from Aug. 15 to Sept. 3, the

library will operate on a reduced schedule and with limited services. McLaughlin will be open 8:30 a.m. to 7 p.m. Monday to Friday and noon to 7 p.m. on weekends and Labour Day.

The OVC Learning Commons will be open 8:30 a.m. to 5 p.m. Monday to Friday and closed on weekends and Labour Day.

For reference service hours, call Ext. 3617.

PEOPLE

MICROBIOLOGIST HONOURED

Jeremy Yethon, a PhD candidate in the Department of Microbiology, is this year's winner of the Canadian Society of Microbiologists' Cargene Gold Medal for Canadian Graduate Student Microbiologist of the Year. He is the third U of G student to win the award since it was launched in 1997. The medal is based on Yethon's extended abstract on "Lipopolysaccharide Synthesis and Characterization of a Core Oligosaccharide Kinase Essential to Outer Membrane Stability." His supervisor is Prof. Chris Whitfield. Yethon has just begun post-doctoral work at McMaster University with a fellowship from the Canadian Institutes of Health Research.

POSTER TAKES TOP PRIZE

John Harlim, an M.Sc. candidate in the Department of Mathematics and Statistics, won the prize for best poster at the sixth Society for Industrial and Applied Mathematics Conference on Applications of Dynamical Systems in Utah last month. Harlim's poster, titled "Codimension Three Cusp and Hopf Bifurcation," was based on his M.Sc. thesis work, conducted under the supervision of Prof. Bill Langford. Harlim begins a PhD at the University of Maryland this fall.

SINGING OF SUCCESS

Four members of the University are part of the women's barbershop chorus *The Over Tones*, which captured top honours last month in the Area 5 Contest and Convention of Harmony Incorporated. U of G members of *The Over Tones* are the group's director, B.J. Verme of the OAC dean's office, Marisa Phillips and Donna Kramp of Admission Services and third-year BA student Robyn Dennett. The award for top small chorus went to the Chord Spinners Chorus from Maryhill, which is directed by Kathy Hanne-son of the College of Arts Media Centre. Hanne-son is also a member of High Fidelity, which took top honours in the quartet contest.

HOUSING STAFF RECOGNIZED

At the recent conference of the Ontario Association of College and University Housing Officers, Allan McInnis, director of Student Housing Services (SHS), received a retirement award recognizing his years of services to the association. SHS staff members Jen McMillen, Glen Weppeler and Jason Coolman received an award for outstanding conference presentation.

RETIREMENT RECEPTION SET

A retirement reception for Prof. Sandy Middleton, Zoology, will be held June 12 from 4 to 6:30 p.m. in the Whippletree. RSVP to Susan Mannhardt at Ext. 2703.

SEATH TO BE HONOURED

A farewell reception for CBS dean Bob Seath will be held June 25 from 4 to 6 p.m. at the Arboretum. RSVP by June 18 to Toni Pellizzari, Ext. 3343 or tonip@uoguelph.ca.

New Approach to Autism Helps Caregivers Cope

Studies link child's temperament with levels of parental stress

APOTENTIAL LINK between the temperament of children with developmental disorders and levels of parental stress could have important implications for professionals in the field as well as for the children and their families, say Guelph researchers.

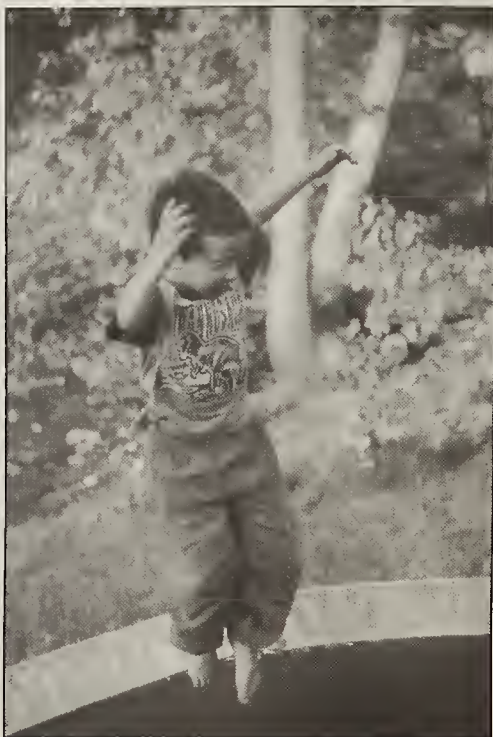
Prof. Mary Konstantareas, Psychology, has been working with graduate students Susan MacKay and Jennifer Janes to determine which characteristics of autistic children predict high stress levels in parents and how they affect parents' coping strategies.

Autism, which falls under the category of pervasive developmental disorders (PDD), is a severe psychopathological condition that impairs social interaction, communication and imagination in childhood.

"If we can identify specific traits of autistic children that are especially difficult for parents to handle, we can help them cope," Konstantareas says. "Parents can learn appropriate and helpful strategies for dealing with their children."

Through her longtime involvement with PDD at the Clarke Institute of Psychiatry in Toronto, she discovered that families with autistic children face two major stressors: worrying about the uncertainty of their child's future and about how to best stimulate and manage the child on a daily basis.

But she wanted to know what, if any, specific traits of the child are correlated to parental stress levels. Originally, she thought the severity



Daily workouts on a trampoline are a good coping strategy for Jacob Kahn and his parents.

PHOTO BY JANE ROBINSON

of the child's symptoms would predict stress levels, but found little evidence to support this. Instead, the hyper-irritability of the child ap-

peared to be a significant predictor of parental stress, which led her to believe that the child's temperament could be a helpful indicator.

Len and Julie Kahn of Guelph know just the type of helpful strategies the researchers are trying to develop. Taking part in Konstantareas' studies — and learning with their six-year-old autistic son, Jacob — has helped them hone coping skills of their own.

"When Jacob was identified as autistic at age two, we quickly found out there were gaps in the systems and structures in place to help us," says Len Kahn. "Jacob is very active during his waking hours — running, climbing, jumping. There isn't much downtime."

And if Jacob is moving, so is one of his parents. "The stress in our lives comes from his high level of activity and the guilt that we aren't doing enough for our other two children," Len says.

Graduate students MacKay and Janes have looked at different aspects of temperament and regulation in children with PDD. MacKay studied connections between temperament and parental adaptation. She found that the element of temperament called surgency (extroversion) was a significant management issue for parents. The higher the surgency of the child, the more the parents worried about the child's safety and how they would cope with him or her in the future.

Janes examined affect regulation (the ability of the child to manage emotions), temperament and executive control (planning processes) in children with PDD and compared them with younger typical children

of the same intelligence. She found that the children with PDD were not as competent in executive control as the typical younger children were, were temperamentally less able to engage in effortful control, and displayed a narrower range of emotionality, consistent with their diagnosis. This was the case even though the children with PDD were older than the typical children.

The researchers drew their sample from Guelph and surrounding areas such as Kitchener-Waterloo and are continuing to expand their data collection.

Konstantareas says that linking temperament, executive control and regulation of affect — and determining interrelationships among them — could help identify families under the most stress and help them manage their children more efficiently.

It may also be helpful to routinely take temperament into account at assessment time, she says. Professionals could then start to provide resources and arrange for more support for families with children who are more likely to present these difficulties.

This knowledge can also help parents and caregivers on a daily basis in dealing with children who are more reactive and have less inhibitory control over their behaviour.

This research is sponsored by the Roeher Foundation and the Social Sciences and Humanities Research Council.

BY MARIANNE CLARK
OFFICE OF RESEARCH

OVC Lab Prepares for West Nile Virus

Pathobiologist is responsible for planning the dead-bird surveillance program that is Canada's best early warning defence against the virus

CANADIAN veterinarians, wildlife biologists and public health officials are poised for an invasion this summer.

Prof. Ian Barker, Pathobiology, says it's likely that Ontarians will be the first to see wild birds killed by the fast-moving West Nile virus. "We expect and are preparing for an incursion of West Nile virus into Canada this summer, if it's not already here, undetected," he says.

A member of Health Canada's national steering committee on West Nile virus, he is responsible for planning the dead-bird surveillance program that is Canada's best early warning defence against the virus. The infection made its North American debut in New York State in the summer of 1999 and has been responsible for the deaths of up to nine people in the United States in the past two years. Dozens have been ill, and the virus has been detected in several other mammals as well as many bird species.

The most susceptible birds appear to be crows, ravens and blue jays, says Barker, so the Canadian surveillance program is focusing on early detection in those species. Members of the general public who

find dead birds are being asked to report them to the public health department in their area. Target birds picked up in Ontario will be shipped to OVC, where Barker oversees a diagnostic laboratory that is part of the Canadian Co-operative Wildlife Health Centre (CCWHC).

A CCWHC lab is located at each of Canada's four veterinary colleges, where pathologists like Barker and Doug Campbell provide wildlife health surveillance and educational programs, information and consultative advice to government and non-government agencies and to the public.

Since the appearance of the West Nile virus, OVC's lab has been swamped with dead birds, says Barker. Autopsies were conducted on almost 1,600 birds last summer. With a change in protocol — they'll now examine only members of the crow family for West Nile virus — and additional summer staff funded by Health Canada, he expects a lower stress level in the laboratory this summer.

Tissue samples collected from all sentinel birds (crows, ravens and blue jays) will be shipped daily to the high-security national microbiology

laboratory of Health Canada in Winnipeg, which has been upgraded with new equipment to identify the virus more quickly. A nationwide database maintained by the CCWHC in Saskatoon will gather data on confirmed cases of West Nile virus infection in dead wild birds and make it immediately available to public health officials.

Speed will be important in controlling an outbreak of the virus and reducing the risk to humans, says Barker. Early detection of the infection in birds will be followed by public education and possibly mosquito abatement if the situation and location warrant such action. Public health advisories are already warning people to reduce their risk of exposure by avoiding areas where the infection has been detected, minimizing outdoor activities at night and using protective measures such as long-sleeved clothing and mosquito repellents.

Similar surveillance systems are in place in the Atlantic provinces, Quebec, Manitoba, Saskatchewan and Manitoba, Barker says.

The Canadian surveillance season began in mid-May, but the most likely time for West Nile virus to

show up is late July, August and September, after the overwintering mosquitoes have had time to transmit the virus to birds and back again to a new generation of mosquitoes. After a few weeks, transmission of West Nile virus among vector mosquitoes and wild bird reservoirs builds up to the point that particularly susceptible bird species die in sufficient numbers to be noticed by humans.

"There is a reasonable possibility that this will happen in Ontario this summer," says Barker, "but we can't make predictions on the probability."

What he can predict, however, is improved surveillance of wild bird populations for all types of diseases. "We examined so many birds last summer that we picked up several other unexpected outbreaks of disease."

One example of a recurring problem that is now better documented is an outbreak of Type E botulism in loons. "We were the first laboratory to see this in Lake Erie," says Barker, "but the infection has now killed more than 1,500 loons in Lake Erie and Lake Ontario in the last three years."

Loon deaths is another story that

deserves examination, but it points out the efficiency of the CCWHC surveillance program, says Barker. It also suggests that Canada's veterinary schools are a good place for the front-line surveillance in Health Canada's protocol for West Nile virus, he says.

Like it or not, the virus is now endemic in North America, brought by some unknown method from southern Europe, Asia or Africa, where it was known previously. Public health and animal health agencies and vets will be adapting to this fact for the next several years, Barker says.

"It's unclear how widespread the virus will become or how its epidemiological pattern will ultimately equilibrate, but many regions will probably have to adapt to the persistent or periodic presence of the disease."

For more information on the fate of West Nile virus in Canada, visit the Health Canada Web site at www.hc-sc.gc.ca or the CCWHC site at www.wildlife.usask.ca. Inquiries to the lab at OVC should go to communications co-ordinator Kara Vlasman at Ext. 4662.

BY MARY DICKIESON

'Inspiration, Vision and Strategic Thinking' Mark Milligan's Tenure as Vice-President (Research)

University community will celebrate VP's contributions and achievements at a campus reception in September

A FEW WEEKS AGO, U of G reached — without fanfare or circumstance — an important milestone. Its researchers exceeded the \$100-million mark for new awards secured over the past three years from the Canada Foundation for Innovation (CFI), the Ontario Research and Development Challenge Fund (ORDCF) and the Premier's Research Excellence Awards, among others. As of April 30, U of G had garnered nearly \$100.8 million in awards and matching funds for more than 40 different research projects.

It's an achievement that Prof. Larry Milligan, vice-president (research), is particularly proud of. He notes, however, that although he had "some" role in bringing in these funds, he would never take sole credit for this success.

"Candidly, and in reality, much of that funding has been generated by individual faculty members who have won awards in support of their research," says Milligan. "What I have believed is that if you create a supportive environment for faculty and have the University be proud of the research that goes on here, then faculty members will succeed in getting funds."

This modest assessment of his 16-year tenure as dean and then vice-president of research — a tenure that ends June 30 and will be celebrated on campus with a reception in September — is not one shared by members of the U of G community.

"Prof. Milligan has provided outstanding leadership in the Office of Research," says president Mordechai Rozanski. "His inspiration, vision and strategic thinking have contributed to our community's research successes. And Larry recognizes that it takes teamwork of faculty, staff, students and partners to succeed — such an understanding and appre-



Prof. Larry Milligan

PHOTO BY MARTIN SCHWALBE

ciation for colleagues is also an aspect of leadership."

Prof. Alan Wildeman, director of the Food System Biotechnology Centre and Milligan's successor as vice-president (research), adds that Milligan is one of the reasons Guelph's distinctiveness and innovation in research are known across Canada.

"He has carried the message very well," says Wildeman. "His starting position has always been excellence

in research."

Milligan says one of the things that drew him to U of G initially — from the University of Alberta in 1985 — was that he saw an opportunity to shape the nature of research on campus. "The position of research dean at that time entailed, in my mind, building the infrastructure and environment for success in research."

Guelph's strong orientation towards food systems and life sciences

inquiry, as well as its research contract with the Ontario Ministry of Agriculture, Food and Rural Affairs — something Milligan believes is unique among Canadian universities — were among the other reasons that brought him east.

The work of strengthening these areas involved building stronger links with government funding agencies such as CFI, ORDCF and the Ontario Innovation Trust. Milligan says he has been pleased over the past few years to see U of G researchers from sometimes very different disciplines come together to apply for these funds and have great success.

"This has been a very noble endeavour on the part of researchers," he says. "Rather than only seeking funds for their own fields, they have collaborated, and I think this has built enormous strength at the University because it has brought a wide range of talent together to solve a variety of problems."

Another of Milligan's goals has been to enhance the link between research and the experience of graduate and undergraduate students. He has done this by regularly talking about the importance of this link, recognizing faculty members who involve students, and helping students understand the value of research.

"My contention is that experience in research is preparation for success in life," he says. "Research involves students recognizing that there is something they need to know, having the ability to get information on that subject, being able to evaluate its validity, interpreting the data and then being able to communicate the conclusions. This, to me, is the recipe for success anywhere."

Solidifying the links between the University's researchers and the business community has also been

one of Milligan's achievements. The University currently has more than two dozen industry partners, including several spinoff companies.

"Some say you should never take money from industry for research because that determines the outcome of that research," he says. "At the University of Guelph, our outcomes are never determined. We have very good standards and policies that we adhere to that ensure both our autonomy and good working relationships with our partners."

Milligan also has words for anyone who may have ever felt uneasy about the great advances now being made in life sciences research, including biotechnology, reproductive technologies and health.

"Early technology development is always a difficult time. It's always a struggle to reach consensus on what is a good use of technology versus an unacceptable use of technology. Fortunately, we have a lot of checks and balances in our society to avoid bad uses and accentuate good uses. I have a lot of confidence in those checks and balances. I would also argue that better knowledge results in a more understanding, deeper and, frankly, more culturally rich society."

Personally, he adds, he is not afraid of knowledge. "I believe the research we are conducting now will improve the human condition enormously, so it's an exciting time — and exciting place — to be at."

Following an administrative leave, which begins July 1, Milligan will join the Department of Animal and Poultry Science, where he will teach and work on a number of projects.

More details on the reception to celebrate his years as vice-president (research) will be posted on the University's Web site in September.

BY SUZANNE SOTO

Weeding Out Misconceptions

Researchers discover purple loosestrife may not be so bad after all

NEW INSIGHTS into the biology of the purple loosestrife (*Lythrum salicaria*) show the "purple menace," as it's known in some circles, may not deserve its bad reputation.

Little is actually known about the environmental impact of the plant or why it's spread so rampantly since first being introduced to North America in the 1800s. But graduate student Carole Ann Lacroix, who is also the assistant curator of the University's herbarium, and Prof. Brian Husband, Botany, say their population data on the plant suggest the "menace" may be no worse than other opportunistic plants native to Canada.

"The spread of loosestrife is com-

monly viewed as extreme and is linked to its non-native background, but most studies are based on only a small number of casual observations," says Lacroix. "The data necessary to evaluate such a claim are definitely lacking."

A characteristic often linked to purple loosestrife's success in North America is its high seed production — a rate of one million seeds per plant has been reported. That's caused panic among some naturalists, who are concerned it will continue to spread rampantly.

In the late 1980s, a booklet distributed by the U.S. Fish and Wildlife Service suggested the plant was smothering many wetland areas. That set off a flurry of eradication

programs, which included releasing European beetles that feed on the flowers.

Lacroix is learning more about the population growth potential of purple loosestrife. She's been measuring the number of seeds produced by plants and following their fate during the stages that follow, such as germination, growth and flowering. For three years, she's been monitoring plants in test plots in Fergus and Belwood. These sites don't have the European beetles, which were released in 1995.

Her data have shown that the growth potential of the purple loosestrife may not be atypical of many plants. Seed production, germination and seedling survival rates

are variable but often lower than indicated by previously published results. And she's found that most of the seeds never survive to become mature plants.

Lacroix has also observed that purple loosestrife appears to have the ability to lie dormant in the soil. She says plants recorded as absent in one year often reappear to flower again in following years. This type of dormancy has been observed in 13 other perennial plant species, including orchids.

In addition, many rare and endangered plants — such as orchids — also produce millions of seeds, and people have no problems co-existing with them, she says.

Lacroix believes this research

may lead to changes in how the general public responds to this plant.

"To be able to form a concrete opinion on whether or not purple loosestrife should be such a cause for concern, we need to find out more about the behaviour of the plant. So many areas need to be explored, and I'm just starting to piece together a puzzle."

Her next step is to use matrices (mathematical series using probabilities) to calculate for the first time a growth rate for purple loosestrife.

This research is sponsored by the Natural Sciences and Engineering Research Council.

BY KRISTY NUDDS
OFFICE OF RESEARCH

HOW SHOULD I READ THESE?

"For native writers, the 'knowable characteristics' expected to inform their writing have changed somewhat in recent days, but still exert disturbing force."

BY HELEN HOY

Editor's note: Prof. Helen Hoy, a faculty member in the School of Literatures and Performance Studies in English and co-ordinator of the women's studies program, is the author of *How Should I Read These? Native Women Writers in Canada*, published in April by University of Toronto Press. It examines the problematics of reading and teaching First Nations women's writing, from the perspective of a cultural outsider. The following is an abbreviated version of the book's introduction.

IN "QUEEN OF THE NORTH," a short story by Haisla-Heiltsuk writer Eden Robinson, Adelaïne, a disaffected Haisla teenager, has to contend with the familiarities of a white powwow spectator, hungry for sexual and cultural stimulation. Eying her bare legs and arms, subjecting her to a sequence of increasingly personal questions, Arnold slaps down one \$20 bill after another to enforce his desire for bannock, after the booth where Adelaïne is volunteering has closed down:

I handed him the plate and bowed. I expected him to leave then, but he bowed back and said, "Thank you."

"No," I said. "Thank you. The money's going to a good cause. It'll..."

"How should I eat these?" he interrupted me.

With your mouth, asshole.

Misreading Adelaïne's sardonic bow as a traditional formality (and interrupting her attempt to communicate about the Helping Hand Society), Arnold extends his cultural "sensitivity" to the protocol for eating fry bread.

Although Adelaïne's polite spoken response — "Put some syrup on them" — restores to the realm of the familiar the fry bread that Arnold posits as foreign, her immediate silent riposte is more eloquent. "With your mouth, asshole" identifies and even more forcefully repudiates Arnold's act of cultural othering. Adelaïne dismisses his effort to make a basic foodstuff esoteric, to place it beyond the pale (so to speak) of recognizable human activity.

Arnold wants to know how to eat fry bread in proper Indian fashion. He apparently wants to consume Adelaïne as well, to fill some undefined need that will show itself more longingly later, when he asks her to let down her hair:

"Put some syrup on them, or jam, or honey. Anything you want."

"Anything?" he said, staring deep into my eyes.
Oh, barf. "Whatever."

The encounter illustrates well how gender inflects race and race inflects gender in the construction and consumption of difference. The particular blend of aggression, cultural curiosity and yearning that Arnold brings to his preoccupation with Adelaïne reflects her position neither simply as native nor as woman — nor even as each, in turn — but, quite specifically, as native woman.

Arnold wants to be the one asking the questions:

"Are you Indian, then?"
... "Haisla. And you?"
He blinked. "Is that a tribe?"

What he does not want is to replace this one-sided acquisition and ingestion with a reciprocal exchange that might challenge racial (and sexual) difference as a source of othering.

This episode from Robinson's short-story collection *Traplines* explores creatively a subject that is increasingly a concern of literary-critical theory. Post-colonial theory — perhaps more properly termed "decolonial theory" — has challenged the reduction of minoritized peoples to the function of "self-consolidating other" for the dominant culture (Gayatri Chakravorty Spivak in *Race, Writing and Difference*). It has interrogated their restriction, from a hegemonic perspective, to bounded cultures narrower and more visible than the culture allotted to the majority.

At a conference of the Association of Canadian College and University Teachers of English in Montreal in 1995, Plains



Cree-Métis scholar Emma LaRocque condemned the propensity of non-natives to employ notions of tradition and cultural difference to explain everything Indian, from birch biting to biography. As an instance of this fascination with cultural difference, she gave the example of the chaplain who asked, "How do you people die?" To this, she suggested the obvious answer was, "We stop breathing."

Although potentially part of a radical politics, respect for social specificity and challenges to ethnocentrism can produce, ironically, "a kind of difference that doesn't make a difference of any kind" (Stuart Hall in *Black Popular Culture*).

Or, worse, they can introduce new forms of domination. As Robinson illustrates, ostentatious cultural deference ("How should I eat these?") can coexist unabashedly with a superior sense of entitlement to the cultural productions of a people and even to the people themselves. Sherene Razack (in *Looking White People in the Eye*) warns that "the cultural differences approach reinforces an important epistemological cornerstone of imperialism: the colonized possess a series of knowable characteristics and can be studied, known and managed accordingly by the colonizers, whose own complicity remains masked." Like the power relations it reflects, difference functions asymmetrically.

For native writers, the "knowable characteristics" expected to inform their writing have changed somewhat in recent days, but still exert disturbing force. Cree-Métis poet Marilyn Dumont describes the pressure on contemporary native writers: If you are old, you are supposed to write legends, that is, stories that were passed down to you from your elders. If you are young, you are expected to relate stories about foster homes, street life and loss of culture, and if you are in the middle, you are supposed to write about alcoholism or residential school. And somehow throughout this, you are to infuse everything you write with symbols of the native world view, that is: the circle, mother Earth, the number four or the trickster figure."

What if you are an urban Indian like herself, she asks. Even in the absence of specific expectations or stereotypes, the marked status of minority groups, by contrast with the unmarked status of the normative group, ties identity and authority for the native writer to one overriding signifier.

Whenever she addresses an audience, Muscogee (Creek)

poet Joy Harjo observes that she is asked more about native culture than about writing. Lee Maracle, Salish-Métis writer and activist, similarly protests that her indigeneness, her location quite specifically as "nativewriter," "native woman," not as "writer" or "woman," is the restrictive grounds of her authority for white readers or white feminists.

LaRocque echoes Maracle's concern, pointing out that the ghettoizing of disparate writings under the category "native" limits public access to relevant material: "For example, an analysis of the Canadian school system by a native author is rarely placed under 'education' or 'sociology' or 'social issues.'" Harjo seems to experience the identification as inappropriately broad — requiring her to illuminate entire peoples rather than her area of expertise, her own writing; Maracle and LaRocque, as inappropriately narrow — requiring them to restrict their insights only to their own race. All three, however, object to being perceived primarily, and disproportionately, in terms of their race. Referring specifically to the tokenizing of "Third World women" on panels, at meetings and in special issues of journals, Trish T. Minh-ha comments, "It is as if everywhere we go, we become someone's private zoo."

Race and gender (among other identity classifications) may well be inventions, constructed categories that signal the deviation of marked races and gender(s) from the norm, but their effects are tangible, producing distinctive "racialized" and "gendered" subject positions.¹ The appropriation-of-voice debate in Canada — which flourished in the late 1980s and early 1990s, with native people challenging non-native creative writers particularly to stop "stealing our stories" — invoked this question of difference. Although it pivoted also on questions of native copyright, racist structures of publication and reception, and arrogation of profits, the challenge insisted on perspectives and knowledge located in the particularities of native histories, cultural and political experiences and story-telling traditions. "There are a lot of non-Indian people out there speaking on our behalf, or pretending to speak on our behalf, and I resent that very much," says Okanagan writer and teacher Jeannette Armstrong. "I don't feel that any non-Indian person could represent our point of view adequately."

The focus of the appropriation-of-voice debate has been on the non-native creative writer who employs a first-person native perspective or retells stories from the oral tradition. In either case, the writer is seen as both displacing the native author and subject and presuming — and in the process, producing — knowledge of realities at some remove from his or her own.

Members of marginalized groups are pressing to be recognized as socially differentiated subjects whose understandings are distinctive, not simply interchangeable with those of other groups or instantly accessible to outsiders. Addressing non-native feminist educators and students, Osenontion (in *Mohawk* by Marilyn Kane) is determined to convey the message "that we are absolutely different," stressing the necessity for readers to "twist their minds a little bit (or a lot) to try to get into the same frame of mind as us." In the context of white cultural capacity, one of (Spokane-Coeur d'Alene poet and novelist) Sherman Alexie's fictional characters in *Indian Killer*, John Smith (himself an instance of the theft of native children for white adoption), in conversation with an Indian wannabe, mounts a grimly ironic defence of at least a minimal entitlement:

"What is it?" Wilson asked. "What do you want from me?"
"Please," John whispered. "Let me, let us have our own pain."

The question "How should I eat these?" — or, in the case of native literature, "How should I read these?" — can involve, then, for the outsider reader, unfortunate occasions either for absolute, irreducible distance or for presumptuous familiarity. And, of course, reifying difference and erasing it are far from mutually exclusive approaches.

AN ACCIDENTAL REVOLUTIONARY

Family therapist honoured for work that raised a furor just a decade ago

BY LORI BONA HUNT

TEN YEARS AGO, Prof. Judy Myers Avis started a revolution in the world of family therapy. She didn't mean to do it. The family relations professor was presenting her research findings on the pervasiveness of abuse and violence in families at a meeting of the American Family Therapy Academy. At the time, discussions and articles on the subject were rare in the family therapy literature. She challenged family therapists for ignoring the issue of family violence and said that, statistically, most violence and sexual abuse in families are committed by men. Why some men are prone to violence should be more carefully studied by therapists, she suggested, because the knowledge could lead to more effective counselling and treatment.

Myers Avis was not prepared for the furor that followed her presentation. Although the majority of conference participants lauded her, some were so outraged that they refused to take part in the rest of the event. Some resigned from the academy. And for years, some people referred to the conference as "that time those feminists attacked us."

Now, a decade later, the same organization that Myers Avis so provoked is giving her one of its most prestigious honours. She will receive the Award for Innovative Contribution to Theory and Practice at the academy's annual meeting later this month. She is being recognized for the very thing that caused such a commotion all those years ago: her persistence in bringing gender and family violence to the forefront.

"I was just concerned about the lack of attention to these issues and was presenting some statistics," she says of the now-infamous conference. "But some people thought I was male-bashing, male-blaming. I didn't expect that type of response. I guess I was naive."

It wasn't that criticism was new to Myers Avis. She attended university in the late 1960s and, over the next few decades, evolved into the renowned feminist theorist she is today. It's a given that ostracism and anger were part of that process. But this conference was held in 1991 — not 1961 — and she was among her peers. "Looking back, I think I didn't fully appreciate how threatening these types of feminist ideas could be, even to this type of audience."

In 1991, many family therapists still insisted that family violence was part of a "systemic cycle," meaning that everything happens in reaction to something else within the family. Popular causes and explanations of abuse included provocative, nagging women and non-protective mothers.

"To name male violence and to hold men responsible for their violence was not a popular idea at the time," says Rachel Hare-Mustin, who was president of the academy in 1991 and organized the conference. "No one had ever said such things in public before."

Myers Avis says she was left reeling. "I kept reminding myself that not everyone would agree with what I had to say, and if everyone agreed, then I wasn't saying anything important. Still, it was a tough time."

But her presentation got people talking, listening and examining and helped change the way her field now looks at gender and violence. "It was definitely a turning point," says Hare-Mustin. "It can truly be said that it was Judy who flattened down the barbed wire for the rest of us to advance across."



That Myers Avis inspired change without even trying is in line with her entire career. It just sort of happened. For one thing, she didn't plan on being a feminist theorist. "I was a late bloomer," she says with a laugh. "Even though I lived through the 'second wave' of feminism in the 1960s, I wasn't very knowledgeable."

After earning a bachelor's degree in psychology and philosophy from Queen's University and a master's in social work from the University of Toronto, she worked as a social worker and later a group and family therapist and counsellor. "During this time, I started to be more conscious of gender and its powerful dynamic in relationships and families, including family violence. My whole consciousness about it changed."

Once the change took place, there was no turning back for Myers Avis. She joined the Faculty of Social Work at St. Thomas University in New Brunswick. She began incorporating feminist theory and ideas about women and gender into her teachings and introduced the first course there on feminist theory and practice in social work. Getting approval to formally teach it, however, was a struggle.

"Keep in mind that this was a small Catholic university. The thinking was that feminist theory was more polemic than academic. I remember that during one of the 'approval' meetings, one male colleague said he understood why we needed social work courses that dealt with children, but he didn't understand why we needed a separate course on women."

There were also some initial protests from students. "But in the end, the students rated it as one of the most crucial courses in their social work program. They petitioned the department to make it part of the core curriculum, and it's been that way ever since."

Myers Avis, who went on from St. Thomas to earn a PhD at Purdue University, is now known for her courses and research on women and gender, feminist-informed therapy and family violence. "The expectations and beliefs about gender roles can take over our lives," she says. "Thinking that as women and men, we must 'be this' or 'do this' can be a straitjacket for all of us."

In the late 1980s, she developed the first family therapy course on working with abuse and violence in families. Since then, it has been a requirement in a master's program here at Guelph. She has written more than 40 articles, book chapters and research reports on feminist theory, violence, sexual abuse and family therapy, training and practice and has participated in more than 100 conference presentations around the world. She has also taught on feminist perspectives in family therapy in Canada, the United States, Europe, Hong Kong, Australia and New Zealand. In addition, she headed U of G's Couple and Family Therapy Centre from 1998 to 2000, teaches, sits on numerous boards and committees and works as a private therapist.

Although this was not the career path she set out to follow, Myers Avis now believes the foundation for it was laid long before she was aware it existed. "My grandmother and mother were both feminists before the word even existed, and I grew up hearing about how they had pushed against the gender expectations that were constraining their lives." Her own mother had a career, her own car and her own apartment, rare for a woman back in the 1930s. "She didn't marry and have children until she was in her 30s." But Myers Avis knows firsthand that even the most non-conforming of women and men can cave to societal expectations. "My mother ended up taking on a very traditional role. I saw how this affected both my mother and my father."

Myers Avis was convinced things would be different for her. She waited to have children until after she had finished her master's degree and she worked while her children were very young, something few women did in the late 1960s. But she did marry young and had her children in her mid-20s. "I always assumed my marriage would be different, but I found, to my dismay, that we tended to fall right into very traditional roles."

Once she became aware of it, Myers Avis says she made major changes in her life, redistributing family and work responsibilities. It was a "personal revolution" that spanned many years. And although this uprising was a bit more intentional than the revolution she started at the American Family Therapy Academy 10 years ago, the transformation it brought about was no less profound.

"The changes happening in my personal life paralleled my growing awareness of the role of gender and feminism that I was discovering in my professional life," she says. "It was a tremendous awakening for me."

PHOTO BY MARTIN SCHWABE

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11. The first issue of the
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Copy deadline is Aug. 27.

Gene 'Fingerprint' Offers Clue to Foot-and-Mouth Virus

Study finds that virus uses its extremely high mutation rate to selective advantage

A U OF G RESEARCHER studying foot-and-mouth disease has found a "fingerprint" that indicates the virus may share certain adaptive characteristics of longer-lasting viral infections such as HIV.

The research by Daniel Haydon, a post-doctoral fellow in the Department of Zoology, focused on six different types of foot-and-mouth virus (FMDV) and was published by the science journal *Genetics*. He also collaborated on a paper published in the May issue of *Nature* magazine that documented how foot-and-mouth disease in the United Kingdom was brought under control.

In the *Genetics* study, Haydon reported that he had discovered a "fingerprint" in the genes of FMDV that reveals the virus uses its extremely high mutation rate to selective advantage. Although FMDV poses no risk to humans, this variation has also been found in human viruses such as HIV that must change quickly and often enough to outsmart an immune system for lengthy periods. Until recently, it was unknown whether shorter-lasting viral infections such as FMDV, which usually clear up in two to three weeks, could benefit from rapid mutation rates in the same way.

"Rapid mutation rates allow viruses to dodge around natural immune responses and vaccines and avoid being eliminated," says Haydon. "This is why longer-lasting viruses such as HIV must be treated by a cocktail of drugs. The viruses mutate so fast that they could become

immune to one drug very quickly. But when you throw three drugs at them at once, it's less likely they can mutate fast enough to dodge them all simultaneously."

The fact that FMDV changes so rapidly means an initial infection could be prolonged or intensified, increasing the potential for transmission, says Haydon. A virus that mutates quickly "tricks" its host's immune system.

"Halfway through an infection, it looks like a different virus, and the body doesn't recognize it as something it has already mounted an immune response to. From the virus's standpoint, this is a good idea because it stands to benefit from confounding the immune system either of its immediate host or other hosts that the virus's offspring may adopt."

Discovering that a virus is mutating and changing is one thing, says Haydon, but figuring out whether change is actually advantageous to the virus is something else altogether. It is much harder to document.

"Is the high mutation rate of FMDV actually intrinsic to its ability to persist, or is the fact that it's mutating and surviving just an accidental coincidence?"

The researchers concluded that although the high mutation rate in FMDV is well documented, it appears that the new mutant virus actually does better and is more likely to persist through time than a virus that stays the same.

Haydon conducted the study while at the Centre for Tropical Veterinary Medicine in Edinburgh, Scotland. He moved to Guelph earlier this year to conduct a four-year research project for the National Science Foundation on the reintroduction of elk into Ontario. Guelph is one of four research centres for that project. For the foot-and-mouth disease study, Haydon collaborated with researchers from animal health institutes in England and South Africa.

In the *Nature* article, Haydon and researchers from the United Kingdom concluded that the foot-and-mouth disease outbreak was brought under control a month after the disease was first noticed. There have been nearly 1,600 foot-and-mouth cases since the outbreak was first confirmed in Britain in February. At the epidemic's height, as many as 40 new cases were being confirmed daily.

Although the researchers say the initial outbreak is on the way out, they caution that new epidemics in previously unaffected areas would have to be immediately contained.

"If there was an outbreak in a new part of the country, the whole story could change quite dramatically," says Haydon. "Chances are the disease would have been in that new area for some time without anyone knowing about it, and the process could start all over again. A new outbreak would be the tip of the iceberg, a whole new cancer, so to speak."

BY LORI BONA HUNT

Conference to Focus on Future of Rural Canada

IF YOU CAN PLAY a role in nurturing Canada's rural sector, you're part of the target audience for a major conference that will take place at U of G July 8 to 11.

This is the annual conference of the Agricultural Institute of Canada (AIC) and its 15 affiliated societies and institutes and the Canadian Society for Engineering in Agricultural, Food and Biological Systems. The program put together by the hosting Guelph branch of the Ontario Institute of Agrologists (OIT) is titled "Sustaining Rural Canada," and it's geared to these groups, as well as other individuals who are concerned about the country's rural backbone.

In the opening keynote address July 9 at 9 a.m., broadcaster and journalist Rex Murphy will paint a picture of "The New Rural Reality," explaining how rural communities provide a foundation for the way all Canadians think of themselves.

Murphy will be followed by Ray Bollman, head of the agricultural division of Statistics Canada, who will compare rural demographics at the beginning of the last century with

the power and influence of those who populate rural areas today.

Tackling the issue of economic strengths in rural communities will be U of G professor Tony Fuller, School of Rural Planning and Development, who will speculate on the need for future changes to farming, the food industry and the main street of small-town Canada.

The rest of the program is a mixture of research presentations, technical and scientific sessions, technology workshops, farm and winery tours, and discussions of major issues facing rural communities: employment, environmental concerns, water quality, the impact of technology, implications of genetic engineering, public health, tourism and farm succession planning.

Professionals from across the country who work in areas such as agrology, agrometeorology, agronomy, animal science, horticulture and extension will meet with university food scientists, engineers, economists and rural extension specialists. And they'll all be talking with farmers, people who run businesses

in rural communities and urbanites who want to live in the country but work in the city.

A special feature of the conference is OIT's 2001 Ag Challenge competition. Forty top agricultural students from universities and colleges in seven provinces will participate in intellectual challenges such as team debate and problem-solving.

In addition, the University has prepared a special program for elementary and high school students accompanying parents to the conference. "Agri-Food Explorations" will introduce them to Guelph research in the life sciences and give them the opportunity to explore various careers in agriculture and agri-food.

The conference schedule includes options for attending the entire conference, one day's proceedings or individual workshops. The full-conference fee starts at \$290 for members of the affiliated professional associations, \$315 for non-members and \$75 for students.

The complete program and registration form are available online at www.aic2001.com.

LETTERS

WHAT KIND OF RESEARCH QUESTIONS WILL BE ASKED?

The appointment of the current director of U of G's Food System Biotechnology Centre, Prof. Alan Wildeman, to the position of vice-president (research) raises a number of questions about the future of research on this campus, especially given the fact that the biotechnology industry is willing to spend \$17 million to "educate" us to the belief that their genetically engineered products are safe for the environment and human consumption.

What will this appointment mean for the University community and for the country's agricultural direction and food security?

Will the research funded continue to concentrate on corporate genetically engineered foods and exclude organic, family-scale, co-operative or any other alternative forms of farming from the University's research and curriculum?

What kind of research questions will be asked — and not asked — by funded scientists? Which findings will be published — and not published — in research reports? Those who are informed know there is a library of learned literature on these repressed questions.

Finally, is this appointment another consolidating step in the invalidation of universities as centres of reliable independent thought and disinterested inquiry?

Jennifer Sumner, PhD Candidate
Rural Studies Program

Engineer Develops Environmentally Friendly Pavement

Porous pavement could negate devastation that aquatic life suffers because of polluted runoff from roads

A U OF G engineering professor has developed an environmentally friendly permeable pavement for use on roads that reduces pollutants in rainwater runoff by 90 per cent.

The porous pavement developed and being studied by Prof. Bill James acts like a filter, purifying polluted water running off paved surfaces. Water from roads normally carries heat, chemicals and contaminants, devastating aquatic life in affected waterways. But studies show that porous pavement reduces pollutants substantially, and in some cases, runoff was cleaner than the rain before it hit the pavement. Porous pavement also experiences less cracking and chipping. James's research appears in the June issue of *Popular Mechanics*.

"The No. 1 problem with impermeable pavement like asphalt is amplified, contaminated water runoff," says James. Asphalt is also not designed to drain penetrating water effectively. If water gets into the pavement, it collects and stays there until winter, when it freezes and expands, causing heaving and cracking. "In hot weather, runoff from asphalt pavement is heated to the point where it endangers desirable fish species," he says.

But the porous pavement James developed is made up of specifically designed interlocking concrete blocks separated by pores filled with soil. Water seeps through these pores into specifically designed layers of rock, sand and soil below. These layers absorb and hold water while it slowly percolates or evaporates away, and helps keep the pavement cool. This system also filters

solid contaminants out of water as it slowly moves downward through the underlying layers. Filtered residues break down over time or are stored in the soil. This temporary water storage inhibits heavy flooding downstream after storms and maintains flows during dry periods.

James and his research team of former and current graduate students — Michael Thompson, Reem Shahin, Brian Verspagen, Chris Kresin and Chris Gerrits — compared the performance of permeable and impermeable pavements in outdoor experiments. They installed four different types of pavement — asphalt, concrete and two types of permeable pavement — and collected eight summers' worth of runoff from rainfall. They measured levels of 23 contaminants, such as copper, lead, nitrates and particulates, in the runoff. For all contaminants measured, the levels in runoff from permeable pavement were consistently the lowest.

The results were verified in laboratory tests with simulated rainfall to rule out the effects of traffic and other land uses. Those tests also concluded that runoff from porous pavements had the lowest concentrations of oils and grease, phenols, heavy metals and bacteria.

The initial cost of porous pavement is greater than that of asphalt, says James, but the long-term costs are lower, especially when environmental damage caused by impermeable pavement is taken into account. He has produced a design computer program that is available free to engineers.

BY CORIE LOK
OFFICE OF RESEARCH

Organic Farmers Have Growing Interest in Spelt

Guelph plant scientist tapped to root out spelt varieties best suited to southern Ontario

SOMETIMES, a plant agriculture professor must turn historian-detective.

Take Prof. Duane Falk for example. Two years ago, he was approached by a group of organic farmers who wanted help finding the best varieties of a long-ago ancestor of wheat called spelt, which their customers covet for its reported health benefits. But with little useful scientific data on how spelt performs in Ontario, Falk had to begin building a baseline of knowledge from the ground up, so to speak.

The farmers who had approached Falk said they wanted to get involved in the plant-breeding process. This resulted in the formation of the Spelt Breeding Club, with Falk serving as the group's technical adviser.

Spelt is very trendy. A certain mythology surrounds the grain, particularly its supposed medical and dietary properties. Claims are that it is more easily digested than wheat and does not promote immune response in celiac sufferers, as conventional wheat proteins do. As a result, demand for spelt outstrips the supply from the 20,000 acres planted in Ontario.

Falk is skeptical about some of the more outlandish claims.

"I think the mythical claims about spelt are just that, myth. Spelt

has the same protein component as wheat, barley and rye. Some people do find spelt more digestible than wheat if organically grown, but there are very few data available. Part of my objective with this research is to collect valid scientific data that I can talk about, that we can use as a baseline."

And according to Falk, regardless of its anecdotal therapeutic qualities, spelt flour makes good bread and even better cake, and could be another viable niche crop for Ontario farmers.

He says spelt was spontaneously mutated genetically about 10,000 years ago to create common wheat. Since then, wheat has been bred and cross-bred innumerable times, but spelt has remained largely unaltered, providing a keyhole view into the past.

Falk sees spelt as being the rough and lanky uncle of the "civilized" wheat we're used to. It needs two processes to thresh, "almost like dehulling oats," he says. "It is first threshed from the plant in the field, then it must be processed further to remove the hulls to get the grain for processing into flour."

At the outset of his research, Falk began contacting organic farmers in Ontario. His goal was to see if they had spelt, and if they did, to try and

identify its pedigree, variety, ancestry and how it was obtained. At the same time, he accessed the U.S. Department of Agriculture's gene bank in Aberdeen, Idaho, where he picked 220 lines of spelt he thought would work best in southern Ontario and should be evaluated.

Delayed by quarantine and red tape, 120 seed varieties were eventually planted in hill plots in late November 1999 at U of G's Elora research station. Falk also brought in centuries-old varieties from Austria, Germany and Switzerland, where spelt is still grown and where its late-maturing, winter-hardy traits are well suited.

From these plantings, less than half survived, so in fall 2000, Falk planted 38 of the more promising types at Elora.

"Ironically, the best line we've found doesn't come from thousands of miles away but from just across the border in Ohio."

The remaining 100 varieties were also planted at an earlier, more appropriate time in October 2000. In addition, Falk planted larger plots of spelt on certified organic land at Ignatius College outside Guelph, to make the comparison between growing spelt on conventional and organic ground.

As part of his research, Falk is

helping OntarBio, Ontario's largest organic farmers' co-op, register and grow varieties.

"I'm involving the organic farmers at every step," he says. "I provide my advice on breeds and cross-breeds and will let the farmers decide which one they want to plant. If we don't find any suitable varieties, I may have to develop new varieties with the participating farmers. This project is a really nice balance with the high-tech plant research we do at

the University of Guelph and also gives me as a researcher a connection with the organic industry and a chance to introduce new varieties of an old plant to Ontario."

Falk hopes that by 2003, he can have a working variety of spelt seed that can be certified by an organic agency. Certification is critical for farmers hoping to sell their produce as organic.

BY ALEXANDER WOOLEY

Scientists Discuss PIXE Developments

Continued from page 1

down entries, marginal notes and corrections.

"It tells you that this thought came before that thought, so you can piece together his thinking," says Campbell. "PIXE is a versatile analytical technique that takes the principles of physics and applies them to chemical analysis. It deals very well with difficult and unusual specimens."

Campbell literally wrote the

book on PIXE — two books, in fact — with the late Sven Johansson of Lund University in Sweden, who invented the technique in 1970.

Campbell's research team at Guelph also created the GUPIX software package that has become the standard for PIXE research. The software has been installed at more than 80 universities and institutes around the world.

BY STACEY CURRY GUNN



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Forgery Case Fascinated 18th-Century Readers

Continued from page 1

brother, Daniel, and both accused Rudd, Daniel's mistress, of being the mastermind.

Andrew says the case was sensationalized for several reasons. It touched a tender nerve in the British financial community, which strongly supported capital punishment for forgery. It revealed social prejudices against women: Rudd led an unsavory lifestyle, but surely a woman couldn't invent such a clever scheme. The case was peopled with familiar political figures like John Wilkes,

King George III, Lord Mansfield and James Boswell. And it uncovered a general feeling in London society that people couldn't be trusted, that many of the social leaders were not what they claimed to be.

Andrew joined with McGowen for the initial research on this project because of his expertise in 18th-century British law. This is the only known case in London's judicial history where immunity granted to a prosecution witness was later overturned, she says. This is the fate that

ultimately befell Rudd, who had originally testified against the brothers for immunity.

The book documents how the political and financial friends of Robert Perreau influenced the court's reversal and the forgery trial of Rudd that took place after the Perreaus had been found guilty. Andrew says the ultimate verdict in her case was also highly unusual in the 18th century, leaving historians to debate whether the court rendered its decision to release Rudd on the basis of fact or

public opinion. In her research, Andrew documented public controversy among Londoners that was similar in intensity to the recent Canadian debate over the immunity deal given Karla Homolka.

Andrew says press coverage of the Rudd case is one of its most interesting facets. British newspapers were evolving from triweekly to daily publication in the late 1770s, and the Rudd case filled newspaper columns and sold papers to fascinated readers.

Sixty per cent of the London papers published during the year-long court case have at least one story about it in each edition; often there were as many as four stories. The newspapers not only covered court proceedings, but also published tell-all versions of the story written by all three defendants, says Andrew. And many private citizens wrote letters to express their opinions about "whodunit."

One newspaper report in 1776 was accompanied by an engraving of a portrait of Rudd — unusual because of its quality and its appearance in the paper. Andrew says one theory is that the demure portrait was arranged by Rudd herself to sway public opinion. It was published two weeks before she appeared in court on the forgery charge. One advance reviewer of Andrew's book has likened the London press coverage of Rudd to the 20th-century media obsession with the O.J. Simpson murder trial.

Andrew first read about Rudd and the Perreaus more than 10 years ago while looking through microfilm records of 18th-century London newspapers. Those papers feed her interest in cultural history, but they're only available on microfilm.

"Newspaper historians have to have good eyesight," she says, "and they need to be slightly crazy."

In the 18th century, newspaper publishers didn't differentiate between front-page and back-page placement of major stories. There were no headlines, no index, no variation in font style or size and only a rare engraving to break up the text.

"Stories and advertisements were piled into the columns one right after another without any noticeable break between them, so to follow a story or find out what was going on in London, you had to read the whole paper every day," says Andrew. It's a daunting task to read even one such newspaper on microfilm.

She manoeuvres a microfilm reader with a stack of notebooks handy so she can make notes on several different topics at once. "You certainly don't want to go back and read a paper twice," she says. From these bits of notes, she's compiled a research dossier of historical information that could take her three academic lifetimes to analyse and publish. There's even material for a historical murder mystery that she plans to write in retirement.

A faculty member in the Department of History since 1984, Andrew has published previous articles on 18th-century attitudes about adul-

tery, marriage, charity, duelling and other social practices, such as the publication of public apologies and letters begging for money. Previous books include *Philanthropy and Police: London Charity in the 18th Century* and *London Debating Societies*.

The latter covers a 25-year period when debating societies were a popular and profitable venture in London, with as many as 32 operating at one time. The proprietor would advertise a topic in the paper for debate the next evening. There was a small fee to attend, a specific time was allotted to everyone who wanted to speak, and a vote was held at the end of the evening to conclude the debate.

The case of the Perreaus and Mrs. Rudd was a popular topic of debate for a year, but Andrew says other subjects were surprisingly progressive for the 18th century: "Is there life on the moon? Should women go to university or be elected to Parliament? Is it better for an older man to marry a younger woman or for an older woman to marry a younger man?"

She is currently compiling information for a book on the history of gambling and is writing another on the changing pattern of advertisements in the 18th-century press. With the help of an undergraduate summer student, she is evaluating the prominence of commercial ads versus what she calls "communication ads" used to deliver personal messages or solicit money and marriage partners.

Unlike these standard histories, *The Perreaus and Mrs. Rudd* focuses on one particular incident rather than a larger social movement. Yet, it took 10 years to write.

"It's not like marriage where you can agree to disagree," says Andrew of her writing partnership with McGowen. "You can't do that when you're writing a history book." She says the co-authors are still good friends, even after five complete drafts of the book, but they may become the subject of a research project on historians who try to collaborate on writing a history book.

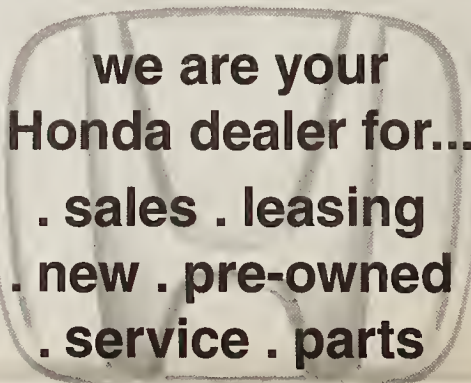
"We wanted to write in a compelling way to capture the larger-than-life influence of the story, but it was very important to us to ensure historical accuracy," adds Andrew.

Her notebooks are still full of information — much of it published gossip — about Rudd and the Perreau twins that couldn't be documented. These stories didn't make it into the book, but Andrew might share one with you if you stop her in the hall of the MacKinnon Building.

As for Rudd, she lived to seduce other men after watching the Perreaus go to the gallows. She spent her latter years in debtors' prison, where she wrote her own autobiography, one that wouldn't pass the scrutiny of a true historian.

BY MARY DICKIESON

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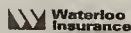
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Furnished four-bedroom house, three baths, basement apartment, close to downtown, security system, central vac, gas fireplace, air conditioning, electric/baseboard heating, available for August, 10- or 12-month lease, leave message at 837-3744 or send e-mail to optimal@sentex.net.

Two-bedroom cottage in Oliphant, just north of Sauble Beach, eat-in kitchen with dishwasher, deck, propane barbecue, TV/VCR, suitable for four, non-smokers, no pets, \$500 a week; furnished bedroom in Guelph with adjoining kitchenette, laundry, cable, non-smoker, no pets, leave message at 763-1236 or send e-mail to bardwell@ovc.uoguelph.ca.

Room with private bath and shared kitchen, laundry, no parking, 15-minute walk to campus, available now, non-smoker, no pets, leave message at 827-9221.

Four-bedroom home in south end for short-term accommodation, available end of June to end of August, \$1,500 a month inclusive, Carol, 823-1857 or cmthompson52@hotmail.com.

WANTED

Visiting academic from Australia requires furnished accommodation for family of four from Sept. 1 to Nov. 1, will take good care of property, non-smokers, willing to pay deposit and bond, send e-mail to jilalbrecht@optusnet.com.au.

Two-bedroom apartment for family, on bus route, Monika, 514-398-2578.

Young professional seeks same or mature grad student to share small house or large apartment, Ext. 6354 or 821-6832 evenings.

Rebounder mini trampoline, in good condition; basic NordicTrack cross-country skier trainer, Wayne, 856-9760 or wayne@pr.uoguelph.ca.

House in country within 30 kilometres of Guelph for post-doc, no pets, no children, non-smokers, 515-232-1534 evenings or kristjan@iastate.edu.

Two-bedroom apartment or house for new faculty member, close to campus, for June 15 or July 1, send e-mail to wyang@swgc.mun.ca.

One-bedroom apartment for September (also willing to take July or

August), parking, laundry, quiet area, send e-mail to milka_2@hotmail.com.

Two-bedroom apartment or house for August 2001, close to amenities, 416-724-0964 or spghosal@net-com.ca.

Ride to and from campus, Brucedale area, willing to share gas costs, Ron, 856-1667 or rchauvin@uoguelph.ca.

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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue June 10 with "Gosling Wildlife Garden," June 17 with "Mosquitoes Bite" and June 24 with "Pond Life." The walks leave from the Nature Centre at 2 p.m. and are free, with a suggested donation of \$3 per person.

Guest botanist Allan Anderson leads a workshop on "Fern Identification and Propagation" July 5 from 9 a.m. to 4 p.m. Cost is \$35. Registration and payment are required by June 21. Call Ext. 4110.

ART CENTRE

The Macdonald Stewart Art Centre hosts an opening reception for the installation "Robert Mason: Moving Home" June 17 from 2 to 4 p.m. The exhibition continues until Aug. 3. On June 19 at noon, Mason will discuss his work at a brown bag lunch-eon at the centre.

The volunteers of the Macdonald Stewart Art Centre host their eighth annual fund-raising garden tour June 17. Gardenscapes 2001 runs

from noon to 5 p.m. rain or shine and will feature six private gardens in the Guelph area. Included on the tour are the gardens of retired U of G history professor Gil Stelter and his wife, Sally, and Prof. Terry Graham, Human Biology and Nutritional Sciences, and his wife, Jane. Cost of the tour is \$10 general, \$3 for children. Tickets are available at the art centre, Framing and Art Centre, Royal City Nursery and Coach House Florists. For more information, call 837-0010.

NOTICES

The 2000 Hopper Lecture is now available in hard copy from the Centre for International Programs and on the centre's Web site at www.uoguelph.ca/CIP. The lecture, presented at Guelph and Saskatoon in October 2000 by Niels Roling of Wageningen University, is titled "Gateway to the Global Garden: Beta/Gamma Science for Dealing with Ecological Rationality." For a free copy, contact Isobel Lander at Ext. 6904 or ilander@uoguelph.ca.

A new multidisciplinary research program on globalization, financed

by the Norwegian Research Council and initiated by the Centre on Innovation and Culture at the University of Oslo, is offering research fellowships at the post-doctoral and doctoral levels. Application deadline is June 22. For details, send e-mail to bt.asheim@tik.uio.no or helge.hveem@st.uio.no or visit the Web site www.uio.no/admbh/reglib/personal/tilsettingvitenskapelig/appointresearchfellow.html.

SEMINAR

The Department of Microbiology presents Eric Brown of McMaster University discussing "Wall Teichoic Acid in *B. Subtilis*: Polymers That Matter" June 14 at 3 p.m. in Animal Science and Nutrition 141.

THESIS DEFENCES

The final examination of M.Sc. candidate Kelly MacDonald, Microbiology, is June 14 at 9:30 a.m. in Animal Science and Nutrition 141. The thesis is "Bacterial Effect of *Pseudomonas aeruginosa* PAO1 Gentamicin-Induced Membrane Vesicles on Gram-Positive Bacteria." The adviser is Prof. Terry Beveridge.

The final examination of Lesley Wright, an M.Sc. candidate in the Department of Environmental Biology, is June 19 at 9:30 a.m. in Bovey 3301. The thesis is "Use of Trellising and Pruning Systems to Manage Grapevine Fungal Diseases." The advisers are Profs. Robert Hall and Wendy McFadden-Smith.

COMMUNITY EVENTS

The Guelph Arts Council's series of Sunday afternoon walking tours continues June 10 with "Downtown Walkabout" (leaving from the Civic Museum), June 17 with "The Slopes of the Speed (Guelph Public Library)" and June 24 with "Altar and Hearth" (Civic Museum). The walks begin at 2 p.m. Cost is \$2.

The Guelph Creative Arts Association holds its 41st annual Painting on the Green, a show and sale of original art and crafts, June 16 and 17 from 11 a.m. to 5 p.m. at the Delhi Recreation Centre.

The Art of the Garden tour in the Erin-Hillsburgh area runs June 23 and 24 from 10 a.m. to 5 p.m. This is

a free self-guided tour of an orchard, nature trails, and organic, herb and perennial gardens. For information, call 855-6772 or 855-4438.

McCrae House will host summer teas July 4, 11 and 25 and Aug. 1, 8, 23 and 29 from 2 to 4 p.m. Cost is \$7. For reservations, call 836-1221.

Due to flood warnings last weekend, OPIRG's Speed River Cleanup has been rescheduled to June 9 at 9:30 a.m. in Royal City Park.

The Over Tones Inc. holds a fundraising garage sale June 16 from 8 a.m. to 2 p.m. at 64 Windsor St.

A local group has formed the first car-sharing co-operative in Guelph. The group has pooled personal funds with an investment from the Co-operators to create the non-profit company Guelph Community Car Co-op Inc., which will own and maintain a fleet of cars that members can schedule for personal use. The first vehicle is now available for use on a pay-per-hour and -kilometre basis. For more information, call 241-2886 or visit the Web site www.carsharing.ca.

Growing Shortage of Pollinators Threatens Agricultural Productivity, Food Security

Researchers develop model to measure economic effects of pollinator deficits on traded commodities such as fruits and vegetables

PROF. PETER KEVAN would be the first to admit he's not an economist. Still, when it comes to the costs of the world's pollinator shortage, the environmental biologist can't understand why no one has done the math.

The equation seems simple enough: pollinators are required to produce most of the world's fruits, nuts, grains and vegetables, and there is a growing global shortage of bees and insects to pollinate crops. In fact, agricultural productivity and food security are widely believed to be in such serious jeopardy that groups such as the United Nations through the Food and Agriculture Organization and the Convention on Biological Diversity have become involved.

It seems logical, then, that crop production and world commodity markets would be affected by the lack of pollinators and that it would be possible to attach a dollar amount to the losses, says Kevan. "Nonetheless, there is little information on

how the shortage is affecting the costs of food production. There must be economic implications, and we should be able to figure out what it is costing the consumer, who is benefiting from the losses and who is not."

So Kevan, along with Prof. Truman Phillips, Agricultural Economics and Business, developed a model that can be used to measure some of the economic effects of pollinator deficits on traded commodities such as fruits and vegetables. The model was introduced in a paper published recently by *Conservation Ecology*. The article also explored evidence for pollination deficits and emphasized that more research should be done on the economics of the problem.

"There are few data available to evaluate the model," says Kevan. "Those we do have indicate that serious problems for world food supply, security and trade could be in the offing if current declines in pollinator abundance, diversity and avail-

ability are not reversed."

The model is complex and takes into account variables such as the product, whether the country is an exporter or importer, trade situations and market conditions. The researchers were able to make some preliminary tests of the model by using data collected from several different commodities. Although the costs varied depending on the data, and in some instances, producers actually experienced gains when there were crop declines resulting in higher prices, the bottom line was clear, says Kevan. "The economic impact of pollinator declines shows that, in all cases, the consumer is hurt."

He adds that these "are just the minuscule beginnings. There simply aren't the data and information out there to really show what the economic impact is, and we cannot get the kind of detailed information we need without more research."

The world's pollinator shortage is the result of a series of complicated

factors that go beyond a simple lack of bees, says Kevan. It also has a lot to do with farmers' attitudes and beekeepers' practices, as well as markets and demand. But the shortage is where the problem starts. He says there have always been examples of natural pollination deficits in crops, back to the times of the Old Testament, but in the past five to 10 years, the situation has become extreme.

"The changes in agricultural styles, chemicals and pesticides have taken a tremendous toll. And even if the pollinators survive, there are fewer and fewer places for them to live. Most of their natural places — holes, logs — have been cleaned up. Their natural habitat was gone a long time ago."

As a result, some farmers rely on beekeepers or imported pollinators, and others simply choose to ignore the situation, says Kevan. "There seems to be great complacency out there, along with a lot of misinformation."

There have, however, been nu-

merous studies that show product quality is affected by the pollinator shortage, including one done by Kevan in 1997. His research found that adding only one hive of honeybees per hectare of apple trees resulted in one extra seed per apple, which in turn produced larger and more symmetrical fruit. In that study, he also examined the economics of importing bees. He concluded that bringing in honeybees totalled about one per cent of production costs and produced a yield of 700 per cent of the cost of pollination services.

This is where the question of: "Why isn't anyone doing the math?" comes up again, he says. "We don't really know what the pollinator shortage means on a global scale because no one is examining it."

Kevan says he hopes the model he and Phillips have developed will at least prompt some interest and further investigation.

BY LORI BONA HUNT

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Evers Named 3M Fellow

PROF. FRED EVERS, Sociology and Anthropology, has received a 2001 3M Teaching Fellowship for outstanding teaching and leadership. Sponsored by 3M Canada and the Society for Teaching and Learning in Higher Education (STLHE), the award is given to individuals who not only excel in teaching their own courses, but also demonstrate an exceptionally high degree of leadership and commitment to the improvement of university teaching across disciplines.

Evers is one of 10 professors receiving fellowships this year, chosen from a field of 48 nominations from 26 Canadian universities. In total, 160 university educators have received the award since its inception in 1986. This year's recipients were announced June 16 at the STLHE conference in St. John's, Nfld.

A graduate of Cornell University and Iowa State University, Evers joined the faculty of U of G in 1985. He is widely known and respected for his interest in and commitment to outcomes-based educational processes. His focus is on skill development and reflection grounded in educational literature and is elaborated in his co-authored book *The Bases of Competence: Skills for Life-long Learning and Employability*.

Evers received a U of G Faculty Association Distinguished Professor Award in 1997 and this year's Peer Helper Program Partnership Award.

A profile of Evers will appear in the next issue of @Guelph, to be published Sept. 5.



Landscape architecture professors Nate Perkins, left, and Maurice Nelischer say that alternative lawns like the one shown here are becoming increasingly popular in Guelph as people realize the amount of time and chemicals required to maintain grass.

PHOTO BY MARTIN SCHWALBE

Grass Is Being Turfed Out of Front Yards, Study Finds

More and more Guelph residents are replacing sod with flowers and rock gardens

GRASS IS BECOMING a thing of the past in some Guelph neighbourhoods, a new U of G study has found.

More and more people are replacing traditional sod-covered front yards with flowers, rock gardens and native plants, say landscape architecture professors Maurice Nelischer and Nate Perkins. Their recent survey of Guelph reveals that the number of alternative lawns has increased between 300 and 900 per cent in the past five years.

"People seem to finally be figuring out that grass is an expensive plant that takes a lot of time and chemicals to maintain, and it doesn't look good unless it's perfect," says Perkins. "I also think there's less social pressure to conform and have a front lawn that looks like everyone else's. More people are willing to take chances."

Perkins and Nelischer's survey was a follow-up study to research they conducted in 1995 on the region's "alternative lawns," meaning front yards where grass takes up less than 20 per cent of the available space. Five years ago, only about 1.5 per cent of Guelph's residential front yards fell into this category, and of

those, most were in older, more established areas.

"There have been unbelievable changes in the past five years," says Nelischer. In Guelph's older areas, the number of alternative front lawns has increased about 300 per cent. In neighbourhoods built in the 1960s and 1970s, the increase is 900 per cent. And in areas built after 1980, the number of alternative lawns has risen by about 600 per cent, the study shows.

"We used Guelph as a test site, but this is a movement that is taking place across the entire country," says Nelischer.

The reasons for the change are many, he says, and they were slow in coming. "Since the early part of the 20th century, North Americans have embraced the idea that front yards should consist of turfgrass, shrubs and the occasional tree."

This has been a cherished image in both Canadian and American culture, he says, and there have even been studies on people's attachment and preference for residential lawns. Over time, zoning laws have pushed houses farther back from the street, leaving a vast area of grass. During the same period, backyards have

moved from being utility and parking areas to highly developed outdoor space, and there's been less need to use the front yard for recreational space.

"In the early 1990s, homeowners started turning these large front yards into gardens," says Nelischer. "Many made the decision for environmental reasons, avoiding the energy and chemical costs associated with a lawn."

Running a lawn mower for an hour, for example, creates as much pollution as a car does in 11 hours. In addition, chemicals and fertilizers are becoming less popular in neighbourhood settings, resulting in people looking for other options, he says.

Perkins adds, however, that starting an alternative lawn is not a simple process. Initially, it's more expensive and time-consuming than installing turfgrass.

"You have to work a lot harder at it," he says. "It requires more esthetic sophistication and patience, but it also generates a lot more visual interest and opportunities to grow rather than mow."

BY LORI BONA HUNT

2001/02 Budget Approved

Final figures won't be confirmed until fall

THE UNIVERSITY of Guelph's 2001/02 preliminary Ministry of Training, Colleges and Universities (MTCU) budget was approved by Board of Governors at its June 14 meeting.

In introducing the budget, president Mordechai Rozanski reminded governors that because the provincial funding announcement was extremely late this year compared with other years, budget consultations were "extraordinarily compressed." Nevertheless, he said, the budget was reviewed by the Student Budget Advisory Group (which was expanded to include members from the Central Student Association, Graduate Students' Association and Student Caucus), the Vice-President (Academic)'s Council, the Consultative Forum, the Senate Committee on University Planning and Senate, all of which endorsed the budget's objectives and directions.

Rozanski noted that these objectives are firmly grounded on the University's commitment to invest in future quality, growth and accessibility.

"This budget provides for investment in areas that will be crucial if the University is to meet the challenges of the increased enrolments predicted for the future," he said. "We are investing in faculty and staff, support for teaching and learning, research support, student services and financial assistance, and infrastructure renewal."

He added that the budget also "maintains the important goal of balancing and stabilizing the budget by staying on track with the deficit repayment schedule and by continuing efforts to reduce our base deficit."

The president noted, however, that because the May 9 funding announcement for universities linked the 1.6-per-cent increase in system funding to overall enrolment growth — which can't be determined until fall enrolments are confirmed in November — U of G's precise allocation is not yet known.

The budget also reflects the good — and not so good — university funding news delivered by the province last month.

Continued on page 8

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Rozanski to Chair Council of Ontario Universities

Two-year term will begin July 1

PRESIDENT Mordechai Rozanski has been appointed chair of the Council of Ontario Universities (COU) for a two-year term that begins July 1.

Currently the council's vice-chair, Rozanski succeeds current chair Paul Davenport, president of the University of Western Ontario.

"We are delighted with Dr. Rozanski's appointment as chair of council," says Ian Clark, COU's president and chief executive officer. "(He) is a highly valued and active member of council who has made important contributions to several

of its task forces and committees during his eight years with COU."

Clark says the council faces challenging times as it seeks to address numerous factors associated with the ever-growing number of students arriving on university campuses.

"Dr. Rozanski's exceptional abilities and consultative leadership style will be invaluable assets to council as we move forward on our multi-year agenda to ensure that students at all of our universities have equal access to excellence," he says.

COU is an advocacy, communications and research organization that represents the interests of Ontario's 17 universities and two associate member institutions.

Its mandate is to provide leadership on issues facing publicly funded universities, to participate actively in the development of relevant public policy, to communicate the contribution of higher education in Ontario, and to foster co-operation and understanding among universities, related interest groups, the provincial government and the general public.

Budget Tops Agenda at Final Meetings of Senate, B of G for 2000/2001

University plans new endowed bursary/scholarship to promote diversity

SENATE and Board of Governors held their final meetings of the academic year this month.

At Senate June 12, president Mordechai Rozanski thanked all senators either completing their terms or retiring from U of G, including the college deans who are retiring or stepping down. Rozanski offered the University's appreciation for their dedication and service to the institution.

The president also updated senators on three critical institutional areas: advocacy with the provincial government, University planning and the capital campaign.

He reminded senators of the May 9 provincial funding announcement for universities. Based on that announcement, he said, the University has prepared a preliminary Ministry of Training, Colleges and Universities (MTCU) budget that reflects the emphasis U of G places on quality and contains no budget cuts (see story on page 1).

On planning, Rozanski urged senators to review the "Planning for 2001-2010" document, based on the work of the University's four planning clusters, and to submit any feedback to the provost.

The president reported that the capital campaign is proceeding well in its "quiet phase." As part of the campaign, the University plans a new endowed bursary/scholarship to promote diversity. A special celebra-

tion in honour of chancellor Lincoln Alexander's 80th birthday will be held in December to support this award. More details will be announced later.

In other business, Senate received for information the annual report of the Centre for International Programs. A senator remarked that the number of students Guelph sent on exchanges in 2000 seemed low at 106. The president agreed but said this was, unfortunately, a problem that is common to many Canadian universities and is the result of the added cost of studying abroad.

The president told Senate that to help remedy this "accessibility" problem, he is part of an Association of Universities and Colleges of Canada group working to persuade Ottawa to establish a substantial fund to help Canadian students study abroad.

BOARD OF GOVERNORS

The June 14 meeting of Board of Governors began on a solemn note. Vice-chair Michael Walsh informed the board of the deaths of two governors' family members — Larry Pearson's son Jason and Mary-Elizabeth Flynn's husband, Michael. The board expressed condolences to both families.

The main order of business for the board was the presentation and approval of the University's preliminary MTCU operating budget for

2001/02. In other financial matters, the board received for information a preliminary 2001/02 financial plan for the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) contract budget. The plan addresses the budget's shortfall of \$4.8 million and supports planning for the future of the enhanced partnership between U of G and OMAFRA.

Governors endorsed construction of the classroom complex, with the total project cost not to exceed \$16 million and to be funded from monies received from the Super-Build Growth Fund. Also approved were a provincially funded \$2-million renovation of OVC's biomedical sciences laboratories and construction of a covered passageway between the Veterinary Teaching Hospital and the Department of Biomedical Sciences.

The board endorsed a two-percent increase in tuition fees at Guelph's agricultural colleges in Alfred, Kemptville and Ridgeway. This is in line with the increase in tuition fees on the main campus approved by the board in March.

Governors also approved the appointment of two new elected members. Effective July 1, Prof. Glen Van Der Kraak, chair of the Department of Zoology, will represent faculty, and Michael Mandeville of Physical Resources will represent staff. The appointments are for three years.

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Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
l.graham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Acting Director Chuck Cunningham
ccunning@registrar.uoguelph.ca

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HUMBER-GUELPH WEB SITE GOES ONLINE

An internal U of G-Humber Web site available to faculty and staff at U of G and Humber College can be accessed at www.caet.humberc.on.ca. The site has been developed to keep members of the Humber-Guelph committees and communities updated on the progress of the project. It will have information on Guelph-Humber academic programs, the proposed building and facilities, finance and administration, and institutional support activities. A separate external Web site will soon be developed for marketing and recruiting and to attract prospective students.

ROAD CLOSURE PLANNED

College Avenue between Powerhouse Lane to just west of the entrance to parking lot P23 will be closed to through traffic July 9 to Aug. 24 because of reconstruction work planned by the city. Trent Lane will be closed at College. During the closure, the city will be removing the "no left turn" sign into Macdonald Street for those driving south on Gordon Street.

CANDIDATES TO SPEAK

Three candidates for the position of associate dean of the B.Sc. program are making public presentations this week. The candidates are Prof. Fred Ramprashad of the CBS dean's office, Prof. Steve Scadding, Zoology, and Prof. George Harauz, Molecular Biology and Genetics. Ramprashad gave a presentation June 19, Scadding will speak June 20, and Harauz will speak June 22. The presentations begin at 9 a.m. in Room 1714 of OVC. Submit written comments on the candidates by June 26 to CBS dean Bob Sheath or CPES dean Peter Tremaine.

HOME TO GET NEW ROOF

Cover-All Building Systems, manufacturers of the Gryphon Dome, will be replacing the roof of the dome at no cost to U of G. The company considers the dome a showcase for its products and wants to use it to introduce a new and improved fabric, says Brenda Whiteside, associate vice-president (student affairs). One advantage of the slightly thicker fabric may be better climate control, she says.

MAHARAJA VISITS

Karan Singh, the last living maharaja and youngest person to ever become a central cabinet minister in India, visited U of G June 12. He spoke to political science professor O.P. Dwivedi's class on politics in India and met with students participating in the India semester.

DISTANCE MBA EARNS KUDOS

The distance education online MBA in hospitality and tourism won the Honourable Mention Award in the Canadian Association of University Continuing Education's 2001 Program of Excellence Competition.

McNeil Named Co-op Employer of the Year

Company lauded for long-term commitment to co-op education



U of G co-op students are getting laboratory experience working at McNeil Consumer Healthcare this summer. From left are Andrea Lynn, Marta Wojciechowski, Nicole Boom, Meg Kenney and Meagan Gould.

PHOTO BY MARTIN SCHWALBE

THIRD-YEAR co-op student Andrea Lynn feels right at home in the pharmaceutical development lab at McNeil Consumer Healthcare in Guelph. Six of the 10 analysts who work full time in the lab are former U of G co-op students.

Lynn, a biochemistry student now completing her second work term at McNeil, thinks her co-workers are a good reason why the company was chosen as U of G's Co-op Employer of the Year.

"McNeil offers a good work experience," she says. "Co-op students do the same work as regular staff do. The supervisors give us responsibility and ask for our opinions."

Those feelings are echoed by other Guelph students who have completed co-op placements at McNeil, says Karen Reimer, manager of Co-operative Education

Services. She hosted an awards luncheon June 4 when Prof. Donna Woolcott, assistant vice-president (academic), presented the 2001 certificate to Harold Jackson, McNeil's vice-president, research and development. Other McNeil guests included Ken Bedase, vice-president, operations, and a former member of U of G's Board of Governors; Tom Maher, vice-president, human resources; and other staff representing the seven McNeil departments that regularly hire co-op students.

The company has been a U of G co-op employer since 1986. Since then, 98 students have completed 148 work terms in the Guelph plant.

"We have a long-term interest in co-operative education," says Jackson. "That record is a testament to the quality of Guelph students and the ability of the University to accept the challenge of change necessary to

maintain a good co-op program. We've worked with other major universities and colleges in Canada, and U of G does an outstanding job in many respects."

Guelph's co-op program is the third largest among Ontario universities, with more than 1,200 co-op students and about 400 entering the program each year.

"By working with industry, we enable students to 'learn by doing' in partnership and allow employers to select and train the workforce of tomorrow," Reimer says.

Joanne Frederick, team leader in McNeil's analytical services department, says the co-op experience gives both ways. "Typically, co-op students are terrific help in the lab, they bring fresh eyes to our work and they free up more time for special projects."

BY MARY DICKIESON

PEOPLE

HAFA PROFESSOR TO EDIT INTERNATIONAL JOURNAL

Prof. Clayton Barrows, HAFA, was recently appointed editor of the *International Journal of Hospitality and Tourism Administration*. This refereed journal is a multinational and cross-cultural publication that focuses on applied research and is published by Haworth Press. The appointment is for three years.

STUDENT AFFAIRS PROFESSIONAL WINS NATIONAL AWARD

Cheryl Rose, co-ordinator of citizenship education programs, is this year's recipient of the Student Affairs and Services Association's (SASA) New Professional Award. The award is intended to assist and acknowledge the efforts of those who have made significant contributions at their own institution or to the student affairs profession in general. Rose, who joined Leadership, Service and Involvement Programs almost a year ago, was honoured at SASA's annual general meeting June 17 in Montreal.

CD-ROM IS FOR THE BIRDS

Prof. Peter Kevan, Environmental Biology, and his wife, Sherrene, a biologist at Wilfrid Laurier University, have developed a new multimedia program that gives bird enthusiasts a new way to enjoy their pastime. *Dawn Chorus I*, produced by Hillside Systems of Guelph and BirdSong Bytes Inc., allows users to access up to 136 different birds and their songs on a CD-ROM and download the data to a hand-held computing device. For more information, visit the Web site www.birdsongbytes.com.

MATH STUDENT SELECTED FOR PIMS CAMP, WORKSHOP

John Harlin, an M.Sc. student in the Department of Mathematics and Statistics, was selected to attend the Pacific Institute for the Mathematical Sciences (PIMS) Graduate Mathematical Modelling Camp at the University of Victoria and the PIMS Industrial Problem-Solving Workshop at the University of Washington.

OAC Alumni Honour Faculty Achievements

THE OAC Alumni Association awarded its annual awards for excellence in teaching, research and extension during Alumni Weekend. Two of the awards went to faculty in the Department of Agricultural Economics and Business — the teaching award to Prof. George Brinkman and the research award to Prof. Glenn Fox, acting chair of the department. The extension award was presented to Prof. Michael Goss, Land Resource Science.

Described as a "world-class educator," Brinkman has received wide acclaim both at the University and in the wider agricultural economics community for his classroom material. This material has been devel-

oped into the *Canadian Agri-Food Policy Handbook*, which is used at schools across North America.

A faculty member at Guelph since 1973, he scores top marks with his students for his commitment, his enthusiasm, his ability to stimulate interest in difficult subject matter, his encouragement of debate and discussion, his availability and his ability to tailor the learning experience to individual students. He played an important role in developing his department's electronic MBA program and in ensuring its continued success.

Fox is considered among the first rank of agricultural economists in the fields of production and resource/environmental economics in

Canada and beyond. His work has included the economics of technical change, environmental economics, the methodology of economics and international trade liberalization.

An important aspect of this work is its relevance to a wide variety of audiences — from academics to farmers. His research also informs his teaching and has earned him a reputation as a respected graduate teacher and supervisor.

Since joining OAC in 1985, Fox has been one of his department's top contributors to refereed journals and, since 1990, he has led in citation counts for his published research.

Goss joined U of G in 1990 to take up the Chair in Land Stewardship in the Centre for Land and Wa-

ter Stewardship. He has been committed to working directly with groups in the farming community, especially on issues related to the environmental effects of agricultural practices on water resources.

One of his first major research efforts at Guelph was the Ontario farm well water survey. This, in turn, has directly supported extension efforts to encourage proper management of farm wells. Goss's work exemplifies the model wherein research and extension are integrated in a collaborative process bridging the gap between university and community. He has furthered this in recent years by working with the Water Quality Working Group of the Ontario Farm Environment Coalition.

New Book Links Scottish, Canadian Literature

Scottish connections also flavour English scholar's first venture into fiction

ALIFELONG LOVE of literature with a Scottish accent has led to two new books by University professor emerita Elizabeth Waterston of the School of Literatures and Performance Studies in English.

Waterston's newest works — including her first-ever venture into fiction — have their roots in her childhood, when she first became enamoured of the writings of such Scottish authors as J.M. Barrie and Sir Walter Scott. As she went on to study Victorian literature at Bryn Mawr and the University of Toronto, her interest in Scottish writing grew, but it intensified even more when she joined the faculty of U of G in 1965. Here, she found herself ensconced in a city founded by Scottish novelist John Galt and at a university that was to become world renowned for its academic and archival offerings in the study of Scottish history and culture.

Although Waterston's specialty at Guelph was Canadian literature and she never had an opportunity to teach in the Scottish studies program, her love of Scottish writing and her research interest in the genre have never waned. And the result is the book *Rapt in Plaid: Canadian Literature and Scottish Tradition*, published this spring by University of Toronto Press.

The book combines reflection, criticism and memoir to illustrate a long-lasting connection between Scottish and Canadian literary traditions. Waterston links the works of Canadian writers such as Alice Munro, Hugh MacLennan, Margaret Laurence and W.O. Mitchell to Scottish writers such as Scott, Barrie, Robert Burns, Thomas Carlyle and Robert Louis Stevenson. She draws examples from lyric po-

etry, narrative romance, war fiction, children's literature, sentimental fiction, thrillers, domestic novels and short stories.

Rapt in Plaid traces the connections from directly imitative 19th-century Canadian writers to modern Canadian works where Scottish tradition persists, sometimes transformed and sometimes distorted. The book illustrates how Scottish ideas and values still wield power in Canadian politics, education, theology, economics and social mores, Waterston says.

More than anything, what she'd

like readers to take away from *Rapt in Plaid* is how much joy there is in reading — and re-reading — books. "Some critics might call me sentimental in my assessments of the works described throughout *Rapt in Plaid*, but I think 'affectionate' is a better way to describe my approach. I like books — why should I slash them?"

It was while doing the research for *Rapt in Plaid* that Waterston was inspired to write her first work of historical fiction, *Plaid Around the Mountain*. Just published by Borealis Press, it's the story of a young Eng-

lishwoman in the early 1800s who takes a trip to Scotland and ends up marrying a Scot who's on his way to Canada to work as an agent for Lord Selkirk. Their story in Canada is set in and around Montreal and focuses in large part on the rivalry among the fur-trading companies.

Although fiction, the book is historically accurate and includes well-known figures of the time, says Waterston, who is currently at work on two more novels.

"Writing *Plaid Around the Mountain* was great fun," she says. "I never knew from one day to the next what

would happen to my characters. Margaret Laurence once told me that that's what happens when you write fiction, but I didn't believe her."

Waterston's new works bring to 12 the number of books she has published — eight on her own and four as co-author. She is well known in recent years for her collaboration with Guelph English professor Mary Rubio on the L.M. Montgomery journals. The fifth and final volume in that series, covering the years leading up to Montgomery's death, will appear sometime in 2002.

BY BARBARA CHANCE

Even Plants Play the Mating Game

Botanist aims to discover how plants attract mates to diversify and continue their species

AT FIRST GLANCE, the cluster of plants growing in the corner of an Axelrod greenhouse doesn't look like anything spectacular. In fact, the plants look like those stubborn weeds that sprout up between the cracks of sidewalks everywhere.

But botany professor Barbara Mable hopes to use these "weeds" to explain some of the most basic unanswered questions about the evolution of plants.

Mable, who joined U of G last fall, will examine how these plants — called *arabidopsis lyrata* or lyre leaved rock cress — attract mates to diversify and continue their species. She has received close to \$1 million from the Canada Foundation for Innovation's New Opportunities Research Fund, the Ontario Innovation Trust (OIT) and numerous partners to fund her studies. Her research was also one of seven OIT-funded projects recognized during a special reception June 15 on campus, hosted

by president Mordechai Rozanski, OIT and the Ministry of Energy, Science and Technology and attended by MPP Brenda Elliott.

"Plants are fascinating to study in terms of mate recognition systems because, unlike animals, they can't actively choose who they mate with based on behavioural or visual cues," says Mable. "But they're faced with the same problem of attracting and accepting an appropriate mating partner."

Some of the plants Mable is studying are polyploid, meaning they have more than the two complete sets of chromosomes that are characteristic of most "higher" organisms (humans, for example, have two sets of 23 chromosomes). Some species of fish, reptiles and amphibians also possess duplicate sets of chromosomes.

For some reason, some plants, reptiles and amphibians seem to be able to tolerate higher numbers of

chromosomes, says Mable. She adds that some species of polyploid frogs produce a mating call that is distinct from that of their relatives and enables them to find like partners and continue their duplicate chromosome line.

Plants also seem to have no trouble tolerating the higher number of chromosomes, she says. In fact, about 70 per cent of all flowering plants are polyploid. But why plants are able to exist with more chromosomes and how they keep continuing their line remains an open question, she says.

Unlike the polyploid frogs, plants can't "call out" for their own species to mate with, yet somehow they recognize their mates and do things to ensure proper pollination, Mable says.

"This is what we want to study, but at the molecular level. We want to look at how the genes involved in recognition work in polyploid

plants, how they change, how duplication affects mate recognition systems and generally how changes at the molecular level affect the entire organism."

Mable has set up tables of "mating pools" in the Axelrod greenhouses, where she is cross-breeding the plants in a controlled environment and studying their offspring. A zoologist by training (she earned a master's degree from U of G and a PhD from the University of Texas at Austin, then did post-doctoral research in British Columbia and Scotland before returning to Guelph), Mable says she had no trouble switching from animals to plants.

"I tend to work on whatever organism best suits the questions," she says. "For this research, it's plants. Especially at the molecular level, evolutionary processes in plants and animals are not all that different. Plants are actually very fascinating."

BY LORI BONA HUNT

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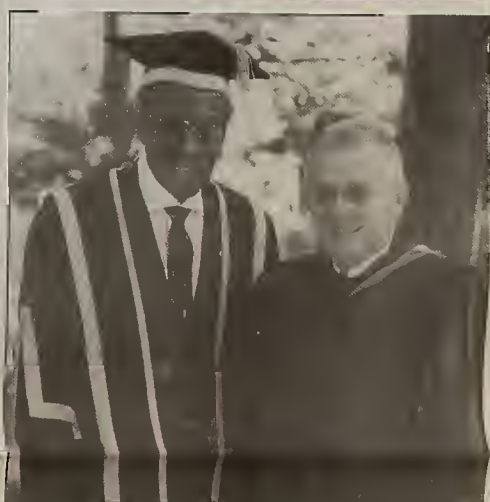
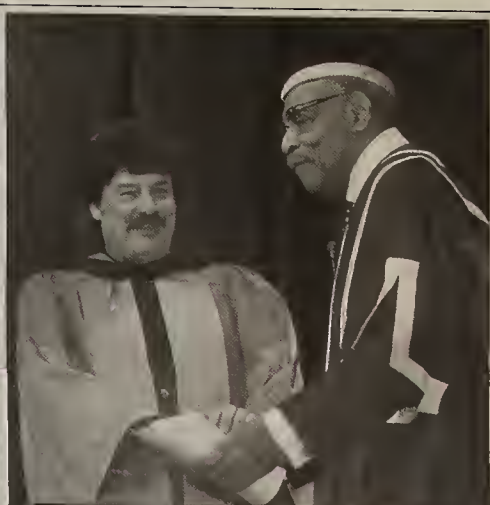
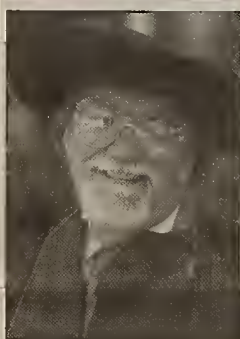
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Close to 1,900 degrees and diplomas were awarded during summer convocation, including honorary degrees to singer Burton Cummings and veterinarian Peter Doherty. The University also named retired zoology professor Bill Beamish University professor emeritus and named retired staff member Andre Auger an honorary fellow. OAC graduate Hank Vander Pol received the Lincoln Alexander Medal of Distinguished Service. In photos at left, from top, are Doherty, Beamish and Auger. At top right are Cummings and chancellor Lincoln Alexander. At bottom right are Alexander and Vander Pol. Above, retired physical sciences dean Earl MacNaughton celebrates the graduation of his granddaughter Allison Sandals from HAFU with her parents, Elizabeth and David, both U of G graduates themselves. David is a faculty member in the Department of Population Medicine.

PHOTOS BY MARTIN SCHWALBE

Top Students Capture U of G Graduation Awards

Medals recognize academic achievement, leadership, contributions to the University and community

RECIPIENTS OF U of G's most prestigious undergraduate and graduate awards were honoured during summer convocation this month.

B.Sc. graduate Samantha Sullivan of Orillia is this year's winner of the top undergraduate award, the Winegard Medal. Named for former U of G president Bill Winegard, the medal recognizes academic achievement as well as contributions to University and community life.

Sullivan graduated in February from the co-operative specialized honours chemistry program with a cumulative average of 88.4 per cent. During her time at Guelph, she received a number of awards for academic excellence, including the Hypercube Scholar Award, which recognizes the chemistry student graduating with the highest cumulative average, the Society of Chemical Industries Prize in Chemistry and the American Chemical Society Undergraduate Award in Analytical Chemistry.

Externally, she received two awards from the Natural Sciences and Engineering Research Council to support co-op work-term place-

ments at Alcan International Ltd. in Kingston and Uniroyal Chemical Ltd. in Guelph.

Along with her academic achievements, Sullivan made many contributions to student governance and leadership. She held numerous positions on the College of Physical and Engineering Science Student Council, including president, chair of the board and representative to the Hearing Board and the Student Budget Advisory Group. She was also a member of the co-op student task force and the chemistry curriculum committee.

Committed to enhancing the student experience at Guelph and encouraging high school students to come to U of G, she was a campus tour guide and student ambassador in her first year, co-ordinated her college's orientation week activities for two years and was a peer tutor for introductory chemistry and calculus. She also participated in College Royal and Science and Engineering Night, and was a student member of the Chemical Institute of Canada.

Sullivan is working for Alcan this summer in Banbury, England, and plans to pursue graduate work and a career in industry.

Other nominees for the 2001

Winegard Medal were Coby Dowdell (College of Arts), Cynthia Horner (College of Biological Science), Kirsten Van Drunen (College of Social and Applied Human Sciences), Ione Smith (OAC) and Marti Hopson (OVC).

This year's winner of the Forster Medal, U of G's top graduate award, is Holly Dolan, who graduated in February with a PhD from the Department of Geography. Named for former U of G president Donald Forster, the medal recognizes academic achievement, motivation, leadership and citizenship.

Nominators lauded Dolan for her initiative, the quality of her research and other scholarly activities, her commitment to education and her outstanding record of service to the University.

She has received numerous scholarships and awards for academic excellence, including the Brian Segal Alumni Doctoral Scholarship and the Cecil H. Franklin Graduate Fellowship in Soil and Water Conservation. She has also earned kudos for her teaching, including the Class of OAC '60 Award for Outstanding Teaching Assistant and the Department of Geography Graduate Teaching Assistant Award.

In addition to her excellence in research and teaching, Dolan has shown outstanding commitment to community service. During her time at Guelph, she participated in departmental committees, student government and University committees, including Senate, the Board of Graduate Studies, the Standing Committee on Internal Reviews and the Committee on Student Rights and Responsibilities. In 1999, she was Guelph's nominee for the Graduate Student Award of Merit from the Senior Women Academic Administrators of Canada.

Away from the University, Dolan also found time to volunteer as a teacher's aide and to help with community events such as the United Way campaign and the Hillside Festival. Most recently, she organized all the workshops and handled publicity and registration for the 11th bi-annual Ontario Women's Conference.

Dolan's PhD research focused on rural water conservation and adaptation. She completed post-doctoral work at Guelph with Prof. Barry Smith and has just begun a research position through the Sustainable Development Research Institute at the University of British Columbia and

the Canadian Institute for Climate Studies at the University of Victoria. In this position, she is responsible for setting up a province-wide research network on climate impacts and adaptation.

Other nominees for the 2001 Forster Medal were Sandra Peters (CBS), James Rodgers (CPES), Ricardo Ramirez (OAC) and Dean Betts (OVC).

Three Governor General's Medals were also awarded at convocation. The gold medal for outstanding academic achievement at the master's level was awarded to Ian Burgess, an M.Sc. graduate of the Department of Chemistry and Biochemistry who is now working on his PhD at Guelph. The silver medal for top marks in the undergraduate program went to Edward Kelly, who graduated with distinction in February, earning a B.Sc. in computing and information science. The bronze medal for top marks in the diploma program was presented to Jennie Wiebe, a graduate of the diploma program in agriculture.

The Vaughan Medal for student contributions to Senate and Student Senate Caucus was awarded to Andrew Bearing, who received his B.Sc. in agriculture.

BE A GOOD CITIZEN

"If we don't take an active part in creating the kind of community we want, someone else will do it for us, and we might not like what we get"

BY ANDRE AUGER

Editor's note: Andre Auger, who recently retired from U of G after 27 years as director of the Counselling and Student Resource Centre, was named an honorary fellow of the University during summer convocation this month. This is an excerpt from the address he gave to graduands of the Ontario Agricultural College and the Faculty of Environmental Sciences.

WE HAVE A LOT IN COMMON, you and I. We are both in the midst of major transitions: you from school to work and I from work to retirement. The only thing about making the most of a transition is to celebrate the best of what has been and to plan for what is to come.

A "transition" in life is any significant change in a major component of our existence. From bachelorhood to marriage, for instance, or from childhood to adolescence. Moving out of the school environment into the workplace is significant, as is retirement, I'm discovering. Even though our transitions are different, they share a lot in common.

The heart of any transition involves letting go and taking on — in short, changing. Letting go means looking back, sifting through experiences and determining what needs to come forward with you. That's the "retrospective" dimension of a transition. Taking on means looking ahead, sifting through visions of the future and determining what needs to pull you forward. That's the "prospective" dimension of a transition.

As we feel our way through this free-fall phase, we prepare to land on our feet somewhere on some solid ground. We try new experiences, explore our personal values and become familiar with our new surroundings. And we try to figure out who we're supposed to become.

I have watched generations of graduates enter the work world, full of idealism and good intentions. Then I read the statistics. I don't see young people up there prominent among those who give of their time and effort and money to the building of and caring for communities. As I look back, what has become clear to me is that I neglected, for a good part of my past life, the dimension of "citizen."

Whatever else we are in life — father, mother, husband, wife, student, son, daughter, worker, boss — we are also citizens. We are members of living communities that we depend on and that depend on us.

We tend to take our role as citizens for granted. We assume that our society is the framework within which we lead our lives; a sandbox in which we play our games; the backdrop against which our ambitions, our dreams and our troubles play themselves out. We expect that our communities, our society, will deliver a certain quality of life, certain services, and then we get on with our barbecues, our sports, our hobbies, our stock market speculation, our ambitions, our recreation, our courting, our child-rearing, our buying sprees — all the things we believe go into making our individual lives so rich and meaningful.

We need to remember that the community we live in is what

we make — or don't make — of it. I remember the old adage: "We have the government we deserve." We also get the communities we deserve. The poor, the homeless, the crime rate, the deterioration in health care, the sorry plight of farmers, the crumbling education system... these are not somebody else's problem. They're ours! If we're not happy with what's happening, making it better begins with us. If we neglect our duties as citizens, then those who have taken their duty seriously, whatever their values, will take the day. And if it's those who believe in a privatized world where investors can make their fortunes running our prisons and our day cares and our health care and our education and our water supply, then that's the kind of society we'll have.

Democracy truly works only when we are all active in it. A balanced society requires a balance of viewpoints. The shareholder, the corporate leader, the health-care advocate, the street worker, the union steward and the classroom teacher all have a right to their voice. Calling them "vested interests" in order to dismiss them misses the point. Declaring social service types "vested interests" and then catering to shareholders and corporate leaders is a perversion of democracy. We all have a vested interest in the well-being of our communities.

Democracy is messy, it's chaotic, it requires debate, it requires getting our hands dirty, and it takes courage and effort. But if we don't take an active part in creating the kind of community we want, someone else will do it for us, and we might not like what we get. And we'll have only ourselves to blame, because we were too busy being individuals to realize we had a role to play in creating our community.

Being a "citizen" doesn't just mean getting out to vote or joining a political party or writing letters to the editor. It means knowing what's going on in our communities — identifying needs or problems or gaps in service, then pitching in to help, to meet the need, to resolve the problem or fill the gap. More than

ever, our communities depend on volunteers and donors just to stay afloat. Money and time: two precious commodities that few of us seem to have, right? But if each of us gave two hours a week and \$20 a pay to our favourite service organization, charity or place of worship, we would make an incredible difference.

I address this especially to men; helping others in need is not only for women. Dozens and dozens of organizations in this town are desperate for male volunteers. And we need men in more than service clubs and sports organizations. We men bring our own vision, our own values, our own special flavour to the clients we serve. Think about Hospice, Meals on Wheels, the Cancer Society, Children's Aid, your local food bank or shelter. I guarantee you that the experience of helping others humanizes us and helps us put our lives into better perspective. Try it!

Everyone is and can be a leader. Leadership is not innate charisma. This is my definition of a leader: someone who recognizes an issue and musters resources to do something about it. Look around in your communities — the downtown cores, the 'burbs, the small towns, the high-rises, the condos, the country estates — and ask yourself: what are the issues this community is wrestling with? How can I help make this a better community? What amount of time and how much money can I afford to put to this issue? As the Ontario Public Interest Research Group has taught: think globally, act locally. The key is to act.

I retired early because there was so much I wanted to do in the community. Before I retired, I had identified my niche — a need, a gap in service — and since retirement, I have gone about volunteering for a number of agencies in town. This has become my new passion. I am growing by leaps and bounds. I am fulfilled beyond my wildest expectations. I am learning more about myself than I ever dreamed I would. And I stand in awe in front of the magnitude of the social problems we are dealing with.

What I have learned is how severe is the need for help, how strapped agencies are for resources, how many people out there need help and how few people there are to volunteer — especially how few men.

I know many of you have already understood the lesson of "citizenship" and balanced school life, and worklife, with active involvement in both the University and the broader community. I salute all of you who have understood the lesson of leadership and involvement. You are the hope of our generation. We need you by the thousands in our cash-strapped communities. The poor need you. The children need you. The developmentally challenged need you. The seniors need you. The youth at risk need you. Service clubs need you — on the front line, as support, on committees, on boards.

So, as we continue, you and I, our free fall in this transition period, let's sift through our experiences of our past phase and bring forward what was best. And let's plan this next phase, before we get too entrenched in it, to ensure that we play our roles as citizens.

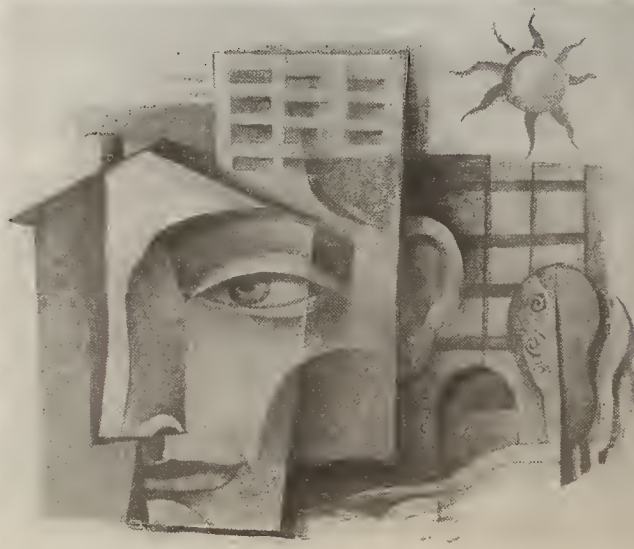


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This is the final issue of **@Guelph** for the summer semester. The first issue of the fall semester appears Sept. 5. Copy deadline is Aug. 27.

SCIENCE BACKGROUND A PLUS FOR GUELPH MAYOR

U of G grad says partnership with University figures prominently in city plans

BY STACEY CURRY GUNN

A PHD IN BIOLOGY might be considered unusual training for the top job at Guelph's city hall, but Mayor Karen Farbridge says her scientific background comes in handy.

"I apply the logical approach that you need to take with scientific endeavours to the decision making that needs to happen," she says. "I really focus on 'What are the facts?' and try to identify them and determine the logical sequence of decision making that comes out of a particular issue. I think that's a result of my past training in scientific research."

There's no shortage of decisions to make and issues to tackle these days for the new mayor, who was elected in November with more than 40 per cent of the popular vote. Farbridge and her 12-member council are grappling with the many implications of a rapidly growing city: new subdivisions, big-box retail development and the sale of the former Eaton's Centre in the downtown core, to name a few.

"I've been enjoying it a lot," she says, ensconced in the bright, airy mayor's office, surrounded by oak furnishings, enormous windows and brightly coloured artwork under a 20-foot-high ceiling. "There's always something new. There's always lots going on in any one given week."

"There are large issues for the community in terms of how we continue to grow and ensuring that we grow in a way that's going to preserve quality of life, that's going to preserve the Guelph that people appreciate now and the special things that are here. That, to a large extent, is what council deals with on a week-to-week basis . . . whether it's issues around the specific developments coming forward, our water supply, how we're going to deal with our waste, or how can we build a transportation system that's going to work for our community and not lead to congestion and air-quality issues."

A better grasp of the technical aspects behind many of these issues is another plus of scientific training, she says.

"Even though my area wasn't water and waste-water management, some of the scientific language is common, or common enough that you have an easier time understanding what's being talked about."

Farbridge's journey to Guelph — and the mayor's office — began in England, where she was born. Her family moved to Canada when she was three, locating north of Toronto. She first came to Guelph in 1979 as a university student and earned three degrees here, culminating in a PhD in zoology in 1989.

Farbridge began a post-doctoral fellowship at the Banting Institute in Toronto, but the arrival of son Graeme a few months later prompted a leave of absence. She then accepted a position with the Ontario Public Interest Research Group (OPIRG) on the U of G campus. That decision, which allowed her to centre her life in Guelph to be close to her young son, turned out to be a radical career shift.

Does she have any regrets about leaving academic life? "Sometimes," she says. "I certainly enjoyed it, and I have no regrets about having spent 10 years doing academic work, but in making the transition, I think I was looking for something that was more directly involved in the community. I do find this work particularly rewarding."

In 1994, Farbridge was first elected to city council. Six years later, at age 39, she became the first female mayor in Guelph's history.

She notes that life is actually a little easier now that she's working for the city full time, compared with the years that she juggled her job at OPIRG, city council responsibilities, committee work and family duties.

"Being here simplifies things somewhat. It's like everything else — there's always more work than time in the day to deal with it, and you have to set priorities and boundaries and make

sure you take the time you need, not only for yourself but also for your family."

Farbridge's family includes her husband, Peter Cameron, who pops by during our interview to drop a chocolate bar on the busy mayor's desk for an afternoon energy burst. She'll call him later to fill him in on her schedule, she says.

Like her scientific background, Farbridge's work on behalf of environmental and social issues flavours her approach to the job.

"The way I've approached environmental issues has always been from a perspective of integrating economic, social and environmental needs, so I've always sought out processes that work to integrate those three areas — for instance, the Guelph Round Table on the Environment and Economy, something I was involved in for a number of years. By integrating these three areas, we're going to be the most successful in terms of developing and implementing strategies that are going to work for the community as a whole and will be sustainable in the long run. That approach fits in very well with what a local government does because it looks after the economic health, the environmental health and the social health of its community."

Environmentalists and business leaders alike hailed Farbridge's step into the mayor's shoes. Election coverage in the *Guelph Mercury* last November included praise from a local developer, the general manager of the Guelph Chamber of Commerce and other community leaders for her balanced approach to issues.

She's gaining attention outside Guelph as well.

Farbridge was recently billed as one of Ontario's "leading thinkers" at a provincial government conference in Toronto on research and development. She gave a presentation on Guelph's approach to surviving turbulent times that focused on "smart growth," an operating philosophy that originated in the United States. It focuses on a combined "bottom line" of economic

strength, environmental responsibility and social support systems.

The City of Guelph, projected to be home to 140,000 people by 2020, is beginning to develop a formal "smart growth" strategy to limit urban sprawl, provide transportation alternatives, address the affordable housing crunch, protect natural areas and the city's cultural heritage, and promote cities as the engines of Canada's economy.

Partnership with the University of Guelph figures prominently in plans for local economic development.

"There is a remarkable opportunity with the University to continue our economic diversification," Farbridge says.

The city is targeting its efforts on the emerging environmental management, agri-food and biotechnology sectors — all areas of U of G expertise. As Farbridge told the Ontario R&D Summit, the recent growth of these sectors rivals that of information technologies, computers and the Internet.

"With virtually unlimited applications, given societal acceptance, the products and technologies being created are providing significant improvements in such areas as health care and food production," she said, noting that capital investment in biotechnology is now measured in the tens of billions of dollars annually.

The research and development cluster that is growing up around U of G already provides 4,400 direct jobs in the Guelph area, not including jobs at the University.

One specific initiative to create more jobs — and to further research and development efforts — is a partnership among the city, the University and the private sector to create a research and development incubator facility for spinoff companies. Construction of the Guelph Technology Commercialization Centre (GTCC), a 34,000-square-foot facility in the University's Research Park, is to be completed this fall, and a handful of companies are ready to move in.

Farbridge believes Guelph has the potential to become Canada's leading centre for advanced agri-food and biotechnology. The city is also developing a 400-acre prestige business park to build on the synergies of the GTCC and University research activities, she says.

Farbridge also sees an opportunity for Guelph to promote itself more as a community.

"In the past, Guelph has been rather internally focused, which hasn't been a bad thing, and we have certainly been able to build a very wonderful community that way. But I do think there are some opportunities for us to start looking outside and promote ourselves as a city more. Next year is our 175th anniversary, and it's a good symbolic time to promote ourselves to the world."

The mayor is also joining the national debate about the role of municipal governments and hopes to see the city's relationship with the province and the federal government evolve.

Farbridge says she is committed to involving Guelph citizens as fully as possible in the many decisions and debates that revolve around city hall. It's important, she says, to ensure that all lines of communication are open and effective.

"We're looking at how we communicate with the public and how we communicate with other levels of government. There has always been a need for that, but I think the expectations are growing in terms of the quality of communications and the effectiveness of it. It's an ongoing challenge how to better communicate what we're doing so that members of our community clearly understand the role that local government plays in their lives."



PHOTO BY MARTIN SCHWABER

U of G Invests in Quality, Accessibility, Growth

Continued from page 1

On the positive side, the government provided a three-year announcement of grant levels that will allow universities, for the first time in recent history, to engage in informed multi-year budget planning, said Rozanski. Unfortunately, the flow of funds is heavily weighted towards 2003/04, with increases in 2001/02 of only 1.6 per cent for growth enrolment and 0.3 per cent for the performance grant based on employment and graduation rates of students.

Perhaps more disappointing, however, is that the government did not increase the basic operating grant nor recognize inflation, said the president. There was also no money in the provincial announcement for enhancing quality, such as funding to reduce student/faculty ratios or to recruit new faculty and staff.

Despite this, U of G has done extremely well in a couple of government allocations from the province's accessibility, performance and facilities renewal funds, said Rozanski.

Regarding the Accessibility Fund, the government confirmed that money received in 2000/01 will be included in base funding. This is good news for Guelph because it received \$4.56 million from the fund.

Also good news is that the government has increased funding for its Facilities Renewal Program to about \$67 million for universities. Although this is targeted one-time funding and therefore not part of the MTCU operating grant, it does mean Guelph will receive an additional \$4.4 million for facilities renewal, for a total of \$6 million when the base facilities renewal grant allocation is added (see accompanying story).

"This money will allow us to begin dealing with some of the most pressing issues related to remedying

2001/2002 PRELIMINARY MTCU OPERATING BUDGET: SUMMARY OF MAJOR CHANGES

IN \$MILLIONS

□ OPENING BASE & INFLATION:

• Opening Structural (Base) Deficit:	(6.100) *
• Provision for Salaries and Benefits	(4.500)
• Estimated Utilities (Increase)	(4.000)
Subtotal before Investments and Solutions	(14.600)

□ INVESTMENTS:

• Teaching Support:	(1.100)
• Learning Enhancement Fund:	(0.150)
• Library Acquisitions:	(0.500)
• Classroom Support Services:	(0.110)
• Research Enhancement Fund:	(0.400)
• Student Financial Assistance:	(1.150)
• Student/Academic Support:	(0.590)
• Total New Investments	(4.000)
Subtotal before Solutions:	(18.600)

□ SOLUTIONS:

• Provincial Grants:	4.100
• Tuition & Enrolment:	3.900
• Pension Contribution Savings	6.200
• Other Major Categories	2.400
Total Preliminary Solutions:	16.600
Total Remaining (unallocated savings)	(2.000)

* Covered from one-time savings in 2000/2001.

Numbers in brackets () indicate a deficit or an increase in cost; no brackets indicate an increase in revenues or cost savings.

health and safety code issues," said Nancy Sullivan, vice-president (finance and administration), in an interview. "We estimate that \$200 million is needed to address our deferred-maintenance projects, but this will help us begin tackling those projects that have been deemed first priority."

Deferred maintenance will also be addressed to some extent through new capital construction, which has received separate designated funding, she added.

The government has also put more money into its Performance Fund for all universities, but the distribution methodology has been changed to allow for a more equitable allocation of the funds across the system. For U of G, this will probably

mean a decrease of about \$400,000 in the amount it will receive in 2001/02 compared with 2000/01.

John Miles, assistant vice-president (finance), explained in an interview that in recent years, as government funding has declined, the University has started each budget process with a base deficit — a shortfall in revenues compared with expenses. In the past, such a shortfall has been covered with one-time adjustments, including a pension contribution holiday and year-end savings.

This year, Guelph started its \$200-million MTCU operating budget process with a structural, or base, deficit of \$6.1 million. To this amount were added provisions for salary and benefit increases of \$4.5

million and an unprecedented \$4 million to cover a drastic rise in utilities costs.

The University's new investments in quality, accessibility and growth will total \$4 million. Among the most notable items in this envelope are the following:

- \$400,000 to the Research Enhancement Fund, intended to help faculty, particularly in the humanities, social sciences and basic sciences, compete more effectively for external research funds.
 - \$1.15 million to graduate and undergraduate student financial assistance. This will increase U of G's budget for scholarships and bursaries to a projected \$13.6 million in 2001/02. The president noted at the board meeting that 56 per cent of Guelph's student assistance is based on need.
 - \$1.1 million for teaching support and to help fund the cost of adding sections and courses to meet predicted increased retention and flow-through enrolment, as well as resources for sessional appointments in colleges delivering the BA program.
 - \$590,000 for student and academic support services, including career services, enrolment management, admissions and recruitment, and registration services.
- All of these investments in quality, growth and accessibility, when added to the previous provisions, bring U of G's total planned expenditures to \$18.6 million before solutions.

SOLUTIONS

To balance the budget, the University hopes to realize revenues of \$4.1 million from MTCU grant increases, said Miles, but about \$1 million of this won't be confirmed until actual fall enrolments are reported to

the ministry in November.

As it did in 2000/01, U of G also plans to apply a one-time pension contribution holiday of \$6.2 million to the budget deficit. Under Canada Customs and Revenue Agency regulations, the University is not currently permitted to contribute to the plans.

Additional budget solutions include:

- \$3.9 million from tuition and enrolment (\$1.2 million from the two-per-cent tuition fee increase approved by B of G in March and \$2.7 million from increased flow-through enrolment).
- \$900,000 from expected faculty and staff retirements and resignations, largely the result of new faculty salaries being lower than those of senior faculty retiring.
- \$950,000 from ancillaries — \$200,000 from increased parking revenues and \$750,000 to cover ancillaries' increased utilities costs.
- \$550,000 from other institutional revenues — research overhead, interest earned and miscellaneous fees.

After all these measures are taken, the University's budget is still left with a funding "gap" of \$2 million, which is larger than the \$950,000 gap built into the budget in 2000/01 and reflects the level of risk taken this year, said Miles.

Like last year, the first-priority use of any year-end savings realized will be to help eliminate the \$2-million gap, he said. But this, too, will not be confirmed until July, when 2000/01 fiscal year-end results are finalized.

The full text of the budget, along with charts, is available on the Web and can be accessed through the "News" section on the University's home page.

Boost in Facilities Renewal Funding Welcome

THE INCREASE in provincial facilities renewal funding for 2001/02 is welcome news, says Nancy Sullivan, vice-president (finance and administration). She attributes the increase to ongoing work between staff in the Ministry of Training, Colleges and Universities (MTCU) and Ontario universities to highlight the need for the province to invest in renewing physical facilities in the university system to support high-quality teaching and research.

For Guelph, the one-time increase means that for 2001/02, the University will have \$6 million to devote to maintaining, repairing and renovating existing facilities, compared with \$3.3 million last year and \$1.7 million in 1999/2000.

Despite the increase, difficult trade-offs are still required in selecting projects to be undertaken, says Sullivan. In fall 2000, Physical Resources asked deans, academic and

administrative directors, the chief librarian and the manager of environmental health and safety to submit their priority needs in six broad categories: code (e.g., fire, building) and safety, maintenance/safety, air quality, maintenance (e.g., urgent utility repairs), academic (adaptation of space for changed use) and energy conservation.

"Projects submitted are developed with input from department heads," says Sullivan, "and these lists are prioritized according to the level of urgency in the particular college or unit. It's a difficult task given the enormity of the needs identified."

Physical Resources then ranks the requests as priority 1 (the most critical safety or code compliance matters), priority 2 (the next most critical safety or code compliance matters) or priority 3 (other needs). Priority 1 requests for 2001/02 to-

talled \$11.2 million, priority 2 needs totalled \$16.6 million, and priority 3, \$9.5 million. The estimated cost of all requests was \$37.3 million.

The preliminary assessment by Physical Resources is reviewed in detail by the vice-president (finance and administration) and the vice-president (academic). Next, a revised list is circulated to VPAC for comment. The final list is then compiled, and projects can begin.

"U of G's buildings and utilities infrastructure are 10 years older than the Ontario university system average," says Sullivan, "and increasing demands are being placed on them because of the greater use of educational technology and sophisticated research equipment. In addition, use has increased as enrolment has grown. So it's not surprising that the majority of funding will be devoted to replacing outdated equipment in the Central Utility Plant; improving

the electrical distribution system; addressing critical safety issues, including a phased approach to upgrading safety showers across the University and compliance with codes; and improving barrier-free accessibility."

She says a continuing high priority is the renovation of classrooms that don't meet current teaching/learning needs in terms of the use of educational technology, air quality and furnishings. The Teaching Support Services (TSS) advisory committee identifies a prioritized list of classrooms in need of upgrading across the University.

"The classroom upgrading program will be ongoing for many years," says Sullivan. This year, classrooms in the Animal Science and Nutrition Building and a classroom wing in the MacKinnon Building will be brought up to the standards set by TSS.

She notes that all Ontario univer-

sities are using a common approach to conducting facilities condition audits over the next five years. This project will provide up-to-date information to MTCU to assist in supporting its requests for additional funding for universities to improve their facilities.

The estimated deferred-maintenance "deficit" for Ontario's 17 universities now stands at \$1.8 billion, says Sullivan. For U of G, this translates into a need for about \$200 million to bring facilities up to acceptable standards.

She adds that the Ontario Association of Physical Plant Administrators and the Council of Senior Administrative Officers will continue to work through the Council of Ontario Universities and MTCU to increase funding in this critical area, which affects faculty, staff and students working and studying at Ontario universities.

Genetic Solutions Produce Healthier Pigs

GUARD Inc. aims to commercialize OVC technology

AFTER MORE than 10 years of research in immunology and genetics, field trials and data analysis, Profs. Bruce Wilkie and Bonnie Mallard, Pathobiology, have produced a technology with the potential to improve disease resistance in farm animals. Commercialization is the next step, with GUARD Inc. leading the effort to license the discovery.

Using selective breeding strategies to implement a genetic approach to animal health, the researchers hope their methodology will provide a competitive advantage for the Canadian pork and dairy industries. They also hope it will alleviate consumer concerns by reducing the use of antibiotics in livestock production. The goal is to elevate the genetic ability of pigs and cattle to resist disease, says Wilkie. The result is, they stay healthier.

Illness occurs when an invading pathogen overcomes an animal's inherent ability to resist it. In any population of animals, he says, a bacterial or viral infection will affect different animals differently. Some animals won't be affected at all, others will get sick and some may die.

Modern livestock operations try to control infectious disease by managing the environment to reduce the risk of infection, treating disease as it is diagnosed and vaccinating to prevent disease. Wilkie and Mallard first started to look for a genetic alternative more than 15 years ago when he was her PhD adviser at OVC. They've since developed a technology and breeding protocol that can produce a whole barn full of pigs with high immunity to pathogens.

A pig's immune response is controlled by genetics, generating a complex phenotype involving the interaction of multiple genes. Given that thousands of genes are involved in regulating the immune system, it's a difficult task to design an animal with the ideal immune response on a gene-by-gene basis, say Wilkie and Mallard. And that's not what they set out to do.

"We're not looking for the gene that predisposes an animal to a particular disease," says Wilkie. "And we're not trying to manipulate an



Profs. Bonnie Mallard and Bruce Wilkie are using selective breeding strategies to implement a genetic approach to animal health.

PHOTO BY MARTIN SCHWALBE

animal's DNA in the laboratory."

Even if those approaches are possible, these researchers see genetic engineering as a long and circuitous route that can't promise success. They think it's possible to improve genetic control of animal health using the tried-and-true strategy of selective breeding.

Since the Second World War, the Canadian livestock industry has been a leader in the use of selective breeding to improve overall production traits in many species of food animals. Animal scientists in Guelph's Centre for the Genetic Improvement of Livestock were among the first to show farmers how to measure the genetic variables that represent milk production (volume of milk produced, fat content, etc.) and estimate the likelihood of a cow and her offspring transmitting those characteristics if used for breeding.

In fact, the late Prof. Brian

Kennedy, Animal and Poultry Science, was involved in helping Wilkie and Mallard apply breeding strategies to improve immune response in pigs by adapting those traditionally used to alter production traits such as leanness and growth rate.

Wilkie and Mallard have discovered that the fundamental ability of pigs to resist disease can be estimated in a similar way by measuring two key components of immune response: an animal's ability to make antibodies and to mount a cellular

response to a test antigen or an invading pathogen. In most types of infection, one or both of these genetically controlled responses will kick into gear. The researchers have developed simple tests — no more invasive than an injection or a TB test — to provide the data that will identify high-immune-response animals.

The Guelph team has used the technology in a small-scale breeding program at the Arkell research station for more than 10 years.

"We know we can change the ability of an entire population of pigs to make an immune response," says Wilkie. "Now we're learning how to manage the technology in a commercial application."

That's the responsibility of Intragen, a subsidiary of the Guelph management company GUARD Inc. Intragen is conducting a development program involving large-scale commercial trials in pigs at Thames Bend Farms in Tavistock. Data collected from January to April are now being analysed by the Canadian Centre for Swine Improvement Inc. in Ottawa.

"We know we can identify pigs with high immune response and performance attributes, but now we need to know if it's worth doing," says Wilkie, whose past experience confirms that it will take on-farm use to fully prove the technology's benefits.

In the 1980s, he developed a shipping fever vaccine for cattle with Prof. Patricia Shewen, now chair of the Department of Pathobiology.

"Lab data and field trials were enough to get a licence for the commercial production of the Pre-sponse® vaccine," he says, "but we had to turn it over to farmers to make it clear that the vaccine actually worked on a large scale."

Intragen will play a part in convincing the livestock industry that the new Wilkie/Mallard technologies will benefit animal health and won't diminish generations of work in selective breeding of pigs for productivity.

"We have really good evidence that just the opposite effect will be seen," Wilkie says.

He's confident that the Thames Bend results will echo trials at Arkell, which show that high-immune responders also exhibit an improvement in productivity traits — specifically rapid growth rate — and a better response to vaccines.

It makes sense. If you change an animal population genetically to raise the overall level of health, you're putting that herd in a totally different and higher performance category. That's an obvious competitive advantage that Wilkie and Mallard want to share first with the Canadian pork industry as a launch site for the global market — and for other industries.

Mallard is already applying the same principle to dairy cattle, with encouraging evidence that it will benefit a dairy cow's health at high-stress times before, during and after calving. Identified high responders have less occurrence of mastitis, for example. She and Wilkie also see the potential for similar applications in poultry breeding and in the aquaculture industry.

Their research has received support from the Natural Sciences and Engineering Research Council, the pork industry and the Ontario Ministry of Agriculture, Food and Rural Affairs. It has also received a vote of confidence from scientific colleagues, with researchers in at least four other countries already trying to emulate the technology.

BY MARY DICKIESON

Nature weekends in Algonquin park

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LETTERS

DEBATES SIGN OF 'GOOD HEALTH'

I would like to thank Jennifer Sumner for raising questions about how research and scholarship are guided at the University of Guelph in the June 6 issue of *@Guelph*.

In my new role as vice-president (research), I very much look forward to helping faculty from across the University in the sciences, the arts, the social sciences and the humanities to achieve the research aspirations they have set for themselves. I also look forward to finding new opportunities for enhancing research at the University and for promoting Guelph's diverse accomplishments.

Another important part of my job will be to work with the provost, VPAC, deans, chairs and directors from all colleges, and other members of the administration to ensure that our research and schol-

arship are grounded in the University's commitment to teaching, academic freedom and the pursuit of excellence.

Research at Guelph has a long successful history of balance between basic and applied outcomes, and of partnerships with the public and private sectors. This diversity often places us at the leading edge of new technologies and debates that are important in society, and it helps us connect with the greater community around us. I interpret these debates as signs of "good health."

It is my role to ensure that all our pursuits are guided by research policies that reinforce principles of excellence, transparency and integrity. Doing that job successfully will also ensure that the University always remains an institution where important questions such as Jennifer Sumner's are welcomed and discussed.

Prof. Alan Wideman
Molecular Biology and Genetics



THEIR WORK PAID OFF

June 6 marked the 10th anniversary of the first payroll run by Cyborg Systems at U of G. Payroll staff, then members of Financial Services, had worked for 18 months converting from the previous system. Eight members of that original team who are still working in Human Resources were recognized at a recent luncheon. Pictured in front, from left, are Mary Agnew and Gail Dudnick. At back are Norma Harrington, Ron Triviss, Marlene Jackle and Tereza Gyuro. Missing are Sandi McLeod and Lillian Wilson. With changing technology, numerous enhancements have been made to the Human Resources systems over the years, many of them not visible to employees. One visible change will come in July when U of G's payroll system begins printing payroll advices using laser technology on recyclable paper.

PHOTO BY MARTIN SCHWALBE

Water Conference Celebrates Milestone

SIXTY YEARS AGO, 10 organizations met in U of G's War Memorial Hall and launched a movement that created conservation authorities in Ontario. Earlier this month, the Canadian Water Resources Association came to Guelph to celebrate that milestone and hold its 54th annual conference.

The conference attracted 320 delegates from across Canada and around the world, including the United States, United Kingdom, Egypt, South Africa, Morocco, Australia and Grenada.

They included government offi-

cials, consultants, academics, members of non-government organizations and students. The delegates' backgrounds included engineering, biology, geography, hydrology, planning and economics.

A day-long session focused on the past, present and future of conservation authorities. When Ontario created the authorities in 1946, their primary responsibility was to control flooding and erosion, says Prof. Rob de Loë, Geography, the conference chair. "Communities were regularly devastated by floods, and conservation authorities were effective agen-

cies for dealing with that problem," he says.

Today, the role of conservation authorities has expanded to include wider watersheds management responsibilities and to offer water-based recreation on conservation lands.

One of the biggest challenges conservation authorities face today is finding the money to fulfil their mandate, says de Loë. Government funding has been slashed, leaving some smaller authorities with no option but to reduce staff, he says. Others, like the Grand River Conservation

Authority (GRCA), have been able to fill the gap through fund-raising.

With the spectres of the Walkerton, Ont., and North Battleford, Sask., water-contamination deaths looming, the role and importance of conservation authorities is likely to increase, he says.

Other themes at the conference included water-quantity management in the Great Lakes basin, climate change, urban water use and management, and rural and agricultural water use and management.

Keynote speakers at the conference were John Pigram, president of

the International Water Resources Association; Tony Smith, the GRCA's assistant chief administrative officer (resource management); and Grahame Farquhar, assistant scientific director of the newly formed Canadian Water Network (CWN).

The CWN is a Network of Centres of Excellence funded by the federal government. De Loë, one of several Guelph faculty contributing to the network, says the CWRA conference provided an opportunity for members of the water community to learn about the CWN and to share ideas and experiences.

The biggest contribution to any RRSP is good advice.



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Window air conditioner, 8250 BTU, used four months, like new, still under warranty, 787-2797 or send e-mail to wfung@uoguelph.ca.

Three-bedroom, 2,000-square-foot house in Village on the Green, overlooking greenbelt, 2½ baths, master ensuite with Jacuzzi tub, two fireplaces, balcony off kitchen, finished ground level with walkout to patio, central air and vac, three-car indoor parking, walking distance to campus and downtown, 824-0067.

Graco high chair; Graco Pack N' Go playpen, blue green plaid; child's plastic drawing table with storage area; full-size baker's rack, white and gold, three shelves; three-shelf

microwave cart; bookcases, black, five shelves, six by three feet; blue bookshelf, three shelves; four-level cat tree; oak video tape holder; desk, 766-1383 or send e-mail to ethomset@uoguelph.ca.

1999 AQHA incentive funded filly, started western but would make a nice English horse; she trailers, clips, bathes and more, 836-1176 or send e-mail to qh_queen@hotmail.com.

Handmade wooden clothes dryers, fold out into three sections, Ext. 6580.

WANTED

Volunteers interested in helping the environment and working on your communication and presentation skills, Ext. 8178 or send e-mail to recycle@pr.uoguelph.ca.

Furnished one-bedroom apartment for serious grad student for Sept. 1, \$450 to \$500, send e-mail to mireyaguerra@hotmail.com.

One-bedroom apartment within walking distance to campus for female grad student for Aug. 1, parking required, send e-mail to torrey@purdue.edu.

Two-bedroom apartment for postdoc and family for July 1, on bus route, send e-mail to chinoo63@hotmail.com.

Two-bedroom apartment for August or September, send e-mail to jessdonovan@hotmail.com.

Two-bedroom apartment for Aug. 1 for quiet, mature female students, send e-mail to Olivia at ostone@ovc.uoguelph.ca or call Kelly at 829-3530.

One- or two-bedroom apartment for September or October for mature professional couple, 827-9589 weekdays until July 31 and 519-369-6331 on weekends.

Visiting academic from Australia requires furnished accommodation for family of four from Sept. 1 to Nov. 1, will take good care of property, non-smokers, willing to pay deposit and bond, send e-mail to jillalbrecht@optusnet.com.au.

Mature female grad student needs one month's accommodation from Aug. 15 to Sept. 15, Pauline, 827-0084 or send e-mail to pachola@uoguelph.ca.

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Furnished four-bedroom house, three baths, basement apartment, close to downtown, security system, central vac, air conditioning, electric heating, available for August, 10- or 12-month lease, leave message at 837-3744 or send e-mail to optimal@sentex.net.

Cottage on Bruce Peninsula, large lot, only two weeks left in July, non-smokers, no pets, leave message at 763-1236 or send e-mail to bardwell@ovc.uoguelph.ca.

Three-bedroom house close to Hartsland Mall, bus and campus, air, parking, non-smokers, no pets, \$1,200 a month plus utilities, available Sept. 1, 767-1312.

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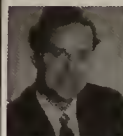
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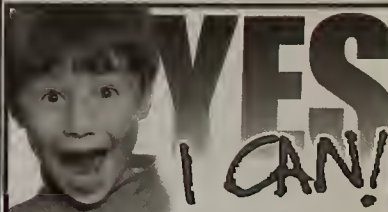
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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue June 24 with "Pond Life," July 1 with "Early Summer Discovery Tour," July 8 with "Wilderness Detectives," July 15 with "Gosling Wildlife Gardens," July 22 with "Old-Growth Forest" and July 29 with "The Nose Knows." The walks leave from the Nature Centre at 2 p.m. and are free, with a suggested donation of \$3 per person.

The Arboretum presents the workshop "Stories in Stone" July 21 from 1 to 3:30 p.m. Led by avocational archeologist Larry Drew, this hands-on session for the family (age 10 and up) will explore rocks, minerals and fossils. Cost is \$18 for adults, \$9 for children or \$40 for a family of four. Register by July 6 at Ext. 4110.

Landscape architect Christopher Campbell, designer of the Arboretum's English garden, leads the workshop "Inspiring Gardens: The English Garden" July 25 from 9 to 11:30 a.m. Cost is \$20. Register by July 11 at Ext. 4110.

Workshops slated for September at the Arboretum include "Fall Warbler Workshop: Practice, Persistence and Patience" Sept. 6 and "Hawk Workshop: Those Magnificent Raptors" Sept. 12. Cost of each workshop is \$45. Registration deadlines are in late August.

The Arboretum Auxiliary holds its annual plant sale Sept. 8 from 9 a.m. to 3 p.m. at the R.J. Hilton Centre on College Avenue. Admission is free.

NOTICES

Acceptance Without Limits (AWL), the on-campus eating disorder/body image awareness group, is compiling a collection of personal stories this summer. If you're interested in sharing your eating disorder/body image struggles with others, call the AWL co-ordinator at the Wellness Centre at Ext. 4066 or send e-mail to awl@uoguelph.ca.

The Central Student Association's 28th annual Guelph Community Barbecue is July 12, beginning at 4 p.m. on Branion Plaza. For more information or to volunteer for the event, call Janet McLaughlin or Mike Stephenson at Ext. 4407.

The Professional Staff Association holds its annual general meeting June 21 from noon to 1:30 p.m. in Thornbrough 100.

The Canadian Institutes of Health Research (CIHR) is launching two new scholarship programs to attract health sciences writers of tomorrow. CIHR is offering two \$5,000 scholarships for senior undergraduate students and up to five \$20,000 awards for graduate students. Details are on the Web at www.cihr.ca.

As of June 29, the eight metered parking spots directly to the north side of the beef barn will be decommissioned due to construction of the new classroom cluster.

A sale of the remaining contents of the beef barn runs daily until June 22 in the University Centre courtyard. Hours are noon to 2 p.m. Payment is by cash and cheque only. All items must be removed from the courtyard by 5 p.m. daily.

Collège d'Alfred is hosting its second annual golf classic July 13 at the Outaouais Golf Club in Rockland. Tee-off time is 12:30 p.m. This is a fund-raising event organized by the Foundation of Collège d'Alfred. Registration is \$100 and includes green fees, cart rental and dinner. To register, call Nicole Maisonneuve at 613-679-2218, Ext. 504.

TEACHING SUPPORT

Teaching Support Services will offer a number of WebCT presentations and workshops throughout the summer. "Introduction to WebCT 3.5" provides a general overview of WebCT and runs July 9 and Aug. 1. "WebCT 3.5 — Hands-on for First-Time Users" is a three-hour workshop running July 10, Aug. 2 and Aug. 31. "Upgrading to WebCT 3.5 for Experienced Users" is a three-hour workshop offered July 12, Aug. 3 and Aug. 30. All sessions are in Day

Hall 211. Registration is required and is available online at www.tss.uoguelph.ca/scripts/register/workshop_list/workshop_list.cfm. If you don't have on-campus access to the Web, call Mary Nairn at Ext. 3571. For information about WebCT, visit the Web site http://course-link.uoguelph.ca/all_about.html or call Richard Gorrie, Ext. 3731.

THESIS DEFENCES

The final examination of M.Sc. candidate Laura Schlaht, Family Relations and Applied Nutrition, is June 26 at 10 a.m. in HAF 243. The thesis is "Non-Profit and For-Profit Agencies in a Managed Competition Environment: Are They Competing on a Level Playing Field?" The adviser is Prof. Joseph Tindale.

The final examination of Yolanda Wiersma, an M.Sc. candidate in the Department of Zoology, is June 27 at 2 p.m. in Axelrod 265A. The thesis is "When Is a Small Park Big Enough? Effects of Size, Isolation and Human Disturbance on Faunal Relaxation in Canadian National Parks." The adviser is Prof. Tom Nudds.

COMMUNITY EVENTS

McCrae House hosts Canada Day celebrations July 1 from noon to 4 p.m. The day will include historical demonstrations, music, refreshments and activities for the entire

family. Admission is free. Other McCrae House events this summer include a history camp July 16 to 20 for children aged five to 10, summer teas on Wednesdays from 2 to 4 p.m. and the annual Teddy Bear Picnic Aug. 16 from 1 to 4 p.m. For more information, call 836-1221.

The Hillside Festival runs July 27 to 29 at Guelph Lake. For information, visit the Web site www.hillside.on.ca.

Woodlawn Cemetery's annual spirit walks are Sept. 9, beginning at 1 p.m. and running every 20 minutes. Tickets are \$7 for adults, \$4 for students, and must be purchased in advance. Call 836-1221 to reserve a place.

Guelph Civic Museum features the exhibition "Ten Pieceful Years," a celebration of the 10th anniversary of the Royal City Quilters Guild, until July 2. Opening June 22 is "Guelph's Industrious Past," highlighting four of Guelph's early industries: Raymond Sewing Machine Co., Taylor-Forbes Company Ltd., Bell Organ and Piano Co. and Gilson Manufacturing. The exhibition continues until Nov. 3. Running July 14 to Sept. 10 is "The Noble Experiment: Temperance and Prohibition."

Storytellers Leslie Robbins and Paul Conway present an hour of stories about water and its importance to Guelph June 24 at 2 p.m. at Guelph Civic Museum.

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CFI, OIT Support Three Projects

U of G researchers will receive close to \$4 million

THREE U of G research projects aimed at developing economically and environmentally sustainable cropping systems, improving beef cattle breeding and developing carbohydrate-based drugs have received nearly \$4 million from the Canada Foundation for Innovation (CFI) and the Ontario Innovation Trust (OIT).

All three projects fall under CFI's New Opportunities Fund, which covers 40 per cent of the infrastructure costs of a project. CFI committed the first \$2 million to the U of G projects, with OIT committing to provide up to \$2 million in matching support. The remaining funding will come from the research institutions and private-, public- and voluntary-sector partners.

CFI's New Opportunities Fund is intended to attract and retain young faculty. In this latest round of funding, U of G captured almost 16 per cent of the total \$14.6 million available, the highest percentage of any of the 23 Canadian universities receiving awards, says Prof. Deborah Stacey, assistant vice-president (research infrastructure programs). Guelph also received the two single largest awards — \$980,908 and \$596,447.

"This achievement is a reflection of the high quality of our new faculty and their research," she says.

Continued on page 8



The East Village townhouse complex, the new kid on the block at U of G, is welcoming hundreds of returning students back to campus this week. PHOTO BY MARTIN SCHWALBE

Townhouse Complex Opens Its Doors

U of G's first new single-student residence since 1972 is designed specifically for upper-year students

FOR THE FIRST TIME in almost 30 years, U of G has a new single-student residence. The East Village townhouse complex opened this week, and some 500 upper-year students are expected to move into the apartment-style residence rooms by the time classes start officially Sept. 10.

"We are very excited about the new East Village residence complex and the fact that for the first time in several years, we are able to accommodate almost all of the upper-year students who applied to live on-campus," says Heather Lane, the new director of Student Housing Services.

The townhouse complex, which has been under construction for just 12 months, is the capstone of Guelph's student residences. The townhouses have either four or five bedrooms, two bathrooms, a kitchen and a shared living area. In all, U of G has 14 different on-campus living environments, making it one of the

largest university housing systems in the country.

The last single-student residence built on campus — East Residences — opened in 1972. The family housing complex on College Avenue opened in 1991. The addition of the new East Village, designed specifically for upper-year students, means that Guelph will house more than 5,000 students in its single and family residences, an increase of more than 600 over last year.

More than 3,000 of those students are in first year. Guelph's residence guarantee ensures that all first-year students who applied by the due date will be accommodated on campus.

The schedule for the opening of the new townhouse complex is extremely tight, but the majority of units are nearly completed, says Lane. But 19 of the 164 units that were expected to open by Sept. 9 will not be ready until after that date.

Continued on page 8

Deans Appointed in Arts, CBS, OAC

Provost lauds search committees, campus input

THE CHANGING of the guard among U of G's senior administration has continued with the appointment of three new college deans this summer. They are Jacqueline Murray in the College of Arts, Michael Emes in the College of Biological Science and Craig Pearson in the Ontario Agricultural College.

Murray, who hails from the University of Windsor, joined U of G this week. Pearson, a chief scientist with the Australian government, takes on the top job at OAC in December. And Emes, dean of research and graduate school for biological sciences at the University of Manchester, comes to Guelph in August 2002. (For profiles of the new deans, see pages 4 and 5.)

"Guelph's success as a learner-centred and research-intensive university is ultimately a reflection of the outstanding faculty, staff and administrative leaders we attract and have attracted over the years," says president Mordechai Rozanski.

"This tradition of talent and excellence continues with our three new deans, who also demonstrate our national and international reach. They succeed first-class predecessors who made great contributions to their colleges and the University."

Prof. Alastair Summerlee, provost and vice-president (academic) and chair of the three search committees, says the challenge "was to find individuals with a clear sense of vision, but also an understanding of the values and attitudes that make Guelph unique. There was a deliberate effort to recruit people who would continue the tradition of working both for the college and for the University. There was also an emphasis on choosing leaders who demonstrated a real sense of caring about the people and the institution."

All three appointments fulfil those objectives."

Summerlee lauds the search committee members for the considerable amount of time and effort they devoted to the selection process. He also praises the extensive participation from the University community.

"The responses from the community were outstanding and provided the committees with lots to think about, which strengthened the processes."

The three new deans are the latest additions to a growing list of new senior administrators.

In July, Prof. Alan Wildeman succeeded Prof. Larry Milligan as vice-president (research). In April, Prof. Peter Tremaine arrived from Newfoundland's Memorial University to become dean of the College of Physical and Engineering Science.

In 2000, Summerlee became provost and vice-president (academic). Prof. Maureen Mancuso was appointed associate vice-president (academic), Brenda Whiteside was named associate vice-president (student affairs) and Prof. Alun Joseph became dean of the College of Social and Applied Human Sciences.

"I am tremendously proud of the superb leadership team we have created at Guelph," says Rozanski. "I commend the dean search committees and their chair, provost Alastair Summerlee, as well as the other search committees that have helped and are currently helping us recruit renewed University leadership."

Searches are now under way for other key positions: two associate vice-presidents for research and agri-food/partnerships and director of Communications and Public Affairs.

BY STACEY CURRY GUNN

Update on Planning

THIS ISSUE of @Guelph contains a special planning supplement to update members of the U of G community on Guelph's academic planning in preparation for the increased cohort and beyond.

This year, there will be intensive planning activity involving members of the community. The Planning Steering Committee will be

making regular reports to the Senate Committee on University Planning and Senate, and there will be updates in @Guelph.

The provost, as chair of the Planning Steering Committee, welcomes feedback and comments from members of the University community at provost@exec.uoguelph.ca.

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MPP Officially Awards Facilities Funding

Campus projects include improved accessibility for students with disabilities

Guelph-Wellington MPP Brenda Elliott was on campus Tuesday to officially award U of G a \$6-million allocation from the provincial government to assist in facilities renewal.

Projects supported by this funding include fire safety, classroom upgrades and improved accessibility for students with disabilities.

The \$6 million includes a \$4.3-million allocation from the SuperBuild program for facilities renewal and a \$1.7-million facilities renewal allocation from the Ministry of Training, Colleges and Universities for the 2001/2002 fiscal year.

"This funding will enhance the quality of life for the students, faculty and staff of the University of Guelph," said Elliott during an announcement held at a new barrier-free accessibility ramp funded by SuperBuild money that gives students

with disabilities access to classrooms in Macdonald Hall. "We can all be proud of the accomplishments of this strong, vibrant, growing university," she said.

President Mordechai Rozanski lauded the government for increasing its level of support for facilities renewal for this year.

"We are continuing to work toward our aspiration that all qualified and motivated students admitted to our university will have access," he said.

"The SuperBuild funding is crucial to helping us meet that ideal by allowing us to undertake projects that improve physical access like the ramp we are highlighting today. We would like to encourage the government to continue to recognize the need to renew and expand facilities

support in the future."

Trudy Smit-Quosai of the Centre for Students with Disabilities added that the new ramp "will mean that students, staff and faculty who use wheelchairs or scooters can access the classroom easily and independently and through a direct rather than a back-door route."

Smit-Quosai is also a member of the Committee on Campus Accessibility, which completes or commissions campus audits of accessibility and makes recommendations on the prioritization of accessibility projects.

"Classroom accessibility has always been a priority of the committee," she says. "Macdonald Hall has presented an access problem for quite some time. With the funding available, the committee's recom-

Continued on page 10

Campus Construction Is Building for the Future

Provincial, federal funding supports wide-ranging activity

UOF G HAS HAD a busy summer. The campus was the hub of much new construction, renovation and relocation activity as, per its plans, it continued expanding and building for the future.

"This volume of activity is possible as a result of targeted provincial funding, including SuperBuild funds, facilities renewal funding, the Canada Foundation for Innovation (CFI) and the Ontario Research and Development Challenge Fund," says Nancy Sullivan, vice-president (finance and administration).

"Staff in Physical Resources have been working non-stop to finish as many projects as possible before the start of classes. Physical Resources currently has in excess of 200 active project files."

One of the biggest projects of the summer was the construction of the East Village townhouse complex (see story on page 1).

The next largest project was the demolition of the barns on Trent Lane as part of preparing the site for Guelph's new classroom complex. The work, which is nearing completion, has included salvaging limestone from the barns' foundation, which will be incorporated into the new complex. Construction is expected to begin in late fall 2001.

The much-needed classroom complex will seat about 1,500 students in four lecture halls and five smaller classrooms, and will feature the latest in computer-based multimedia equipment for the delivery of technology-assisted courses.

Funded in part by the provincial SuperBuild program, the complex is scheduled to open in 2003, in time to accommodate the expected student enrolment increase resulting from the so-called "double cohort."

Tied to the barns' demolition was the construction of nine studios for fine art graduate students in Blackwood Hall and the former fire hall. These studios replace space that students occupied in the barns.

"The new studios are very good space for artwork," says Prof. Mary Cyr, director of the School of Fine Art and Music. "Everything is brighter, and the space is so much better-equipped. We have movable walls, so the studio space can be adjusted, and we also have built-in storage space for the students."

In preparation for building a new 350,000-square-foot science complex on Gordon Street, a number of people and offices in buildings south of the Axelrod Building will be relocated this fall.

Among other projects, Zoology

Annex 2 is being refurbished to temporarily accommodate the Institute of Ichthyology, which will be part of the science complex; Young House will be the new home of the *Canadian Journal of Botany*; and the corner of East and South Ring roads will be the new location for Environmental Health and Safety. A final design of the science complex is expected to be approved by Board of Governors this fall, with construction beginning in 2002.

Other work over the summer that will continue in the academic year includes:

- Complete renovation and expansion of the Canadian Research Institute for Food Safety. Funded by CFI, the renovation, which will add significant laboratory and office space, will be completed this fall.
- Expansion and addition of transgenic greenhouses to the Crop Science Building, also funded by CFI, to be completed this fall.
- Renovation of the Ontario Veterinary College, which will add labs and a link to enhance safety. This is the first phase of a much larger redevelopment planned once funding is identified.

Continued on page 10

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U OF G RECEIVES AWARD OF MERIT

Family and Children's Services of Guelph and Wellington County presented its first Award of Merit to the University of Guelph in recognition of its long-term and significant commitment to the lives of children and families in the Guelph community. The award cited U of G for the contributions of many volunteers who have served the agency, the participation of faculty and staff on the agency's board and committees, and the work done by the Department of Family Relations and Applied Nutrition and the Centre for Families, Work and Well-Being. Family relations professor Kerry Daly accepted the award on behalf of the University.

ASSOCIATE DEAN OF B.Sc. PROGRAM NAMED

Prof. Fred Ramprasad of the College of Biological Science has been appointed associate dean of the B.Sc. program, effective Aug. 1. Formerly academic assistant to the dean of CBS, he will take a leadership role in the B.Sc. program, working closely with the deans of CBS and CPES. Duties include chairing the B.Sc. program committee, working with departmental curriculum committees on curricular changes and working with faculty to develop modules for the Advanced Analysis and Training Centre. Ramprasad will also continue to serve CBS as a program counsellor.

DIRECTOR APPOINTED

Roberta Mason was appointed director of Student Life and Career Services in the division of Student Affairs July 1. She was previously acting co-director of the Office of First-Year Studies (OFYS). In her new position, she oversees Career Services, OFYS and Student Leadership and Involvement Programs.

NEWSLETTER WINS AWARD

Independent Study/Access won a marketing award for its *IS Link* newsletter from the Canadian Association for University Continuing Education. The association singled out the newsletter's 2000/2001 special issue for its use of colour, reader-friendly format and graphics. It's the second time in three years the department has been recognized for *IS Link*.

PROJECT SERVE HONOURED

Leadership, Service and Involvement Programs received the 2001 Program of the Year Award from the Student Affairs and Services Association of the Canadian Association of College and University Student Services for Project Serve, an annual community-based event that encourages students to volunteer on and off campus. The award recognizes a program that exhibits innovation and creativity, makes a contribution to student and/or professional development and has significant meaning for its home institution.

Guelph-Humber Goes Public

Recruitment efforts target students in Toronto area

THE UNIVERSITY of Guelph-Humber has received high praise from the provincial government, encouragement from employers and endorsement from U of G senators and governors at both institutions. Now we're going to find out what students think.

This month, Guelph-Humber launches recruitment efforts for joint degree and diploma programs scheduled to begin in fall 2002. Secondary school students, parents and guidance counsellors attending the Ontario Universities Fair in Toronto Sept. 21 to 23 will learn about Guelph-Humber programs in business, computing and media studies. A radio advertising campaign will target potential students in the greater Toronto area, and a Guelph-Humber Web site goes on line next week at www.guelphhumber.ca.

Most important, says Prof. Michael Nightingale, assistant vice-president (academic), who has been co-ordinating the development of the program at Guelph, liaison staff will visit secondary schools in Ontario from mid-September until the end of November to tell prospective students how they can earn both an honours university degree from Guelph and an applied diploma from Humber College in only four years. Secondary school applications for fall 2002 must be submitted to the Ontario Universities' Application Centre by Dec. 1, 2001.

"We think students will recognize and appreciate the unique opportunity offered by this joint venture," says Nightingale. "We expect the University of Guelph-Humber will appeal primarily to students from the greater Toronto area who are focused on applied programs and plan to save on education costs by living at home."

Students will be physically located in a new building on the Humber College campus and will take university-level courses taught by faculty from both institutions.

"For students interested in one of our three initial programs, the integrated degree and diploma curricula could mean a two-year savings in time and money," says Nightingale. "That's a pretty powerful recruitment message."

Target intake for fall 2002 is 200 students, increasing to 600 in the second year, when additional programs in community and family social services, early childhood studies, gerontology and criminal justice are slated to begin. "Our goal is to reach an overall student population of 2,000 students by 2006," he says.

Guelph-Humber recruitment efforts will be under the direction of former assistant registrar Susan Vercruyse, who has accepted a nine-month contract as associate registrar, student recruitment, with the University of Guelph-Humber. Chuck Cunningham, acting director of Communications and Public Affairs, says Vercruyse has distinguished herself as one of Canada's top recruitment professionals during 11 years with U of G.

Cunningham co-chairs (with Humber marketing director Donna Chow) a Guelph-Humber subcommittee on marketing, communications and recruitment that also developed an official identifier for the University of Guelph-Humber and produced an admissions viewpoint for prospective students.

Liaison officer Shannon Muir co-ordinated production of the viewpoint from an office at Humber College. A second liaison officer and a clerical staff position will be filled this fall, joining Vercruyse and Muir on the Humber campus.

Vercruyse says the University of Guelph-Humber offers a competitive advantage that will appeal to both prospective students and employers. "The offering of our first three programs in business, media studies and computing is well-timed to meet growing industry demands in these fields for qualified and educated graduates. And the fact that these innovative options will be offered in Toronto in a purpose-built multi-million-dollar facility will be a definite attraction for applicants."

Construction of the four-storey Guelph-Humber facility will begin this winter on Humber's north campus in Toronto, with completion tentatively scheduled for fall 2003. Students applying for fall 2002 will be housed in Humber College facilities until the new building is completed. The initiative has received

almost \$30 million in capital support through the provincial SuperBuild fund and a guarantee of full operating funding from the Ministry of Training, Colleges and Universities. In addition to the more visible recruitment efforts and construction activities, Guelph-Humber committees are moving ahead on curriculum development for the bachelor of business administration, bachelor of applied computing and bachelor of applied arts programs that were approved by Senate in January.

"Faculty from both Guelph and Humber are developing the curriculum for each pilot program from the ground up," says Nightingale. "All courses will be offered at a university level of study, and each one is being designed to integrate theory and practice and maximize study time by integrating classroom and e-learning. An experiential component in each program will reinforce learning outside the normal timetable as preparation for the workplace or graduate work."

President Mordechai Rozanski says he is "tremendously impressed with the dedication of our Humber College partners. President Robert Gordon, vice-president (academic) Richard Hook and all the staff and faculty involved have brought the highest quality of standards to the program development and have been excellent colleagues."

In turn, Gordon commends the way faculty and staff at both institutions have worked together so well. "This is a unique partnership that has been built on agreements at a fundamental level," he says.

Rozanski adds that this collaboration provides many advantages for U of G, including the opportunity to provide increased cohort places without direct impact on campus facilities in Guelph.

"This is one more way U of G is demonstrating leadership in responding to student and societal needs," he says. "In addition to increasing accessibility to our academic programs, Guelph now has a visible presence in Toronto and has built a very successful partnership with Humber College that may lead to other collaborative activities."

BY MARY DICKESON

PEOPLE

HUME NAMED AIC FELLOW

Prof. David Hume, executive director of U of G/OMAFRA research programs, was elected a Fellow of the Agricultural Institute of Canada (AIC) at the AIC's annual meeting at U of G in July. He was honoured for his contributions to Canadian agriculture through his research in crop physiology and agronomy of corn, soybeans and canola. A faculty member at U of G since 1966, he has been instrumental in developing canola as a commercial crop in southern Ontario, expanding the province's soybean industry and improving the management of corn across Canada.

FOOD SCIENTIST ON STATE VISIT TO SOUTH AMERICA

Retired food science professor Ron Subden participated in a state visit to Argentina and Chile headed by Governor General Adrienne Clarkson. The focus of the two-week visit was the wine industry, with Subden representing academic interests. Among the topics discussed with South American counterparts were student exchange programs and New World Wine Producer agreements on oenological practices and alliances.

GILLESPIE TO CHAIR NSERC SELECTION PANEL

Prof. Terry Gillespie, Land Resource Science, has been appointed chair of the Natural Sciences and Engineering Research Council's Strategic Projects Selection Panel on Environmental and Sustainable Development for a three-year term.

BLA STUDENTS EARN KUDOS FOR DESIGNS

Two U of G BLA students earned kudos in the 2001 student design competition sponsored by the American Society of Landscape Architects (ASLA). Raymon Yim took first place in the design category for his project "Experiential Equality." Jack Vanstone earned a commendation in the same category for "Adrenalscapes: Designing Thrill." The winning submissions will be showcased in *Landscape Architecture* magazine as well as at the ASLA's annual meeting in Montreal this month. In addition, the ASLA awarded BLA student Jana Zelenski a Landscape Architecture Foundation Scholarship.

ROBERTS SITS ON CIHR REVIEW COMMITTEE

Owen Roberts, director of research communications in the Office of Research, was invited to sit on the first science writer scholarship peer review committee of the Canadian Institutes of Health Research.

AUDIT MANAGER CHAIRS K-W CGA COMMITTEE

Kelly Bertrand, manager of Audit Services, recently became chair of the board of directors of the Kitchener-Waterloo chapter of the Certified General Accountants Association of Ontario. He is serving his second term on the board.

IN MEMORIAM

Memorial Service Honours Zoologist

A MEMORIAL SERVICE was held Sept. 3 at the Arboretum for University professor emeritus Roy Anderson of the Department of Zoology, who died Aug. 27 at the age of 75.

A native of Alberta, he earned his B.Sc. in parasitology from the University of Alberta and his MA and PhD from the University of Toronto, then held post-doctoral positions at the London School of Hygiene and Tropical Medicine and the University of Paris. He was a research scientist with the On-

tario Research Foundation before joining U of G in 1965. He served as chair of the Department of Zoology from 1979 to 1989, retired in 1991 and was named University professor emeritus in 1992.

A nematologist, Prof. Anderson made important discoveries about parasitic diseases and their potential significance to the ecology and management of wildlife. He was co-editor and part author of two pioneering volumes on the parasitic diseases of wild mammals and birds. In 1968, he was the first Ca-

nadian winner of the Henry Baldwin Ward Medal for outstanding achievement from the American Society of Parasitologists.

Prof. Anderson is survived by his wife, Phyllis, two children, Doug and Michel, and two grandchildren, Jennifer and Diana. Memorial donations can be made to the Roy C. Anderson Memorial Graduate Scholarship, c/o of Alumni House. A tree will be planted in his memory Sept. 23 at the Wall-Custance Memorial Forest in the Arboretum.

Arts Dean Will Trumpet College Achievements

Historian has strong record of promoting importance of arts and humanities

IT'S BEEN AN EVENTFUL summer for Jacqueline Murray. She won a Social Sciences and Humanities Research Council of Canada (SSHRC) grant that will support her passion for medieval research for the next three years. She spent two weeks in England at international academic conferences. After a brief return home, she flew to Siena, Italy, for five weeks to teach a course on sexuality and gender in the Renaissance. And to top it all off, she packed up her life in Windsor to start a new job as dean of the College of Arts at U of G this week.

"I'm just thrilled to be coming to Guelph," she says. "I'm looking forward to meeting everyone and helping Guelph continue to be one of the best universities in the country."

Murray says U of G "has a fabulous College of Arts. It's dynamic, exciting, and has great people and innovative programs like Scottish studies and European studies, along with stellar programs in the humanities and creative arts. The University also has a beautiful location, and it does so well in the *Maclean's* rankings. Who wouldn't want to go to Guelph? It's a star place."

Murray steps into the dean's shoes from a position as professor of history at the University of Windsor. Her administrative experience includes 10 years as the director of Windsor's Humanities Research Group. She has a BA



Prof. Jacqueline Murray
PHOTO BY MARTIN SCHWALBE

from the University of British Columbia and an MA and PhD from the University of Toronto.

Murray's research focuses on theological and cultural ideas about gender, sexuality, marriage and family in pre-modern Europe. In addition to a lengthy list of publications, she has contributed to two History Channel productions, *The History of Sex* and *The Children's*

Crusade.

Her SSHRC project will explore how notions of masculinity influenced male self-perception in the Middle Ages. The value system of that era prized virility and ability as a leader, fighter and protector while the church preached masculine ideals of chastity, peace and a monastic life.

Murray will look at how these competing value systems played themselves out in medieval society and formed men's sense of self and place in the world — and continue to influence contemporary society.

The first thing Murray plans to do as dean of the College of Arts is spend time learning more about the college's programs and individuals.

"It's not like there's anything at Guelph that needs fixing," she says, but there will be a need to plan for issues such as the double cohort of first-year students and to develop long-range strategies for College of Arts programs. "We need to think about where we want to be in five years."

Murray intends "to make sure there continues to be an atmosphere conducive to research, teaching and innovation, as well as strong interdisciplinary and discipline-based programs."

And she aims to increase the college's profile by trumpeting its many achievements to

the University community and beyond.

"I want to make sure the College of Arts is on everybody's front page."

Prof. Elizabeth Ewan, History, who served on the decadal search committee, says the group was impressed by Murray's "strong record of promotion of the importance of the arts and humanities, both within the university and to the broader community. She has a demonstrated commitment to interdisciplinary work, and that was seen as important to many of the activities in the college and also to activities with other colleges."

Ewan also lauds Murray's consultative style, her strong record as a teacher and researcher, her ideas for aiding and promoting teaching and research in the college, and her commitment to community service.

Prof. Alastair Summerlee, provost and vice-president (academic), chaired the search committee, which also included Prof. Daniel Chouinard, director of the School of Languages and Literatures; Prof. Alan Filewod, Literatures and Performance Studies in English; student Jacqueline Swaisland; administrative assistant Susan Morrison; Prof. Brian Allen, chair of the Department of Mathematics and Statistics; and Prof. Alun Joseph, dean of the College of Social and Applied Human Sciences.

BY STACEY CURRY GUNN

Two Candidates Announced for Associate VP

TWO FINAL CANDIDATES — both of them U of G graduates — have been selected for the position of associate vice-president (agri-food and partnerships) and will give public presentations on campus this month.

John Core, a B.Sc. and M.Sc. graduate of OAC who chaired the Dairy Farmers of Ontario (DFO) from 1990 until this year, will speak

Sept. 7. John Lynch, a DVM and D.V.Sc. graduate of OVC who is manager of marketing services for U of G's Laboratory Services, will speak Sept. 14. Both presentations begin at 9:10 a.m. in Room 1714 of the OVC Lifetime Learning Centre.

As chair of the DFO, Core was pivotal in connecting dairy farmers' needs with research policies and priorities. During his tenure with the

organization, he expanded the yearly investment in research to approximately \$1 million. From 1999 to 2001, he was president of the Dairy Farmers of Canada, dealing with international trade and supply management issues.

Lynch, who also holds an MBA from Queen's University, serves as the lead negotiator for Lab Services' major corporate projects. He also

provided leadership in the development, implementation and administration of the enhanced partnership between the University and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA). He is an adjunct faculty member in the Department of Pathobiology.

The associate vice-president (agri-food and partnerships) will have responsibility for overseeing

the operations of the partnership agreement between OMAFRA and the University and other key agri-food research partnerships that build on it.

All interested members of the University community are invited to attend the presentations and submit written comments to Prof. Alan Wildeman, vice-president (research), chair of the search committee.



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CBS Dean Welcomes Challenges, Change

"The subject of biology is going through an unprecedented explosion of knowledge . . . it's a fantastic time to be a biologist"

WHEN MICHAEL EMES arrives from the University of Manchester next August to become dean of the College of Biological Science, he'll be bringing more than 20 years of experience in an academic system that has been through enormous upheaval and change. That should serve him well at a time when Ontario universities are set to undergo the biggest growth spurt in decades.

Emes's decision to leave his position as dean of research in biological sciences at Manchester was sparked, in large part, by the changes and challenges that lie ahead for CBS. "As I learned more about the job, the plans for new building and the prospects for renewal and growth, it seemed to me an exciting opportunity I could not let pass by," he says.

Emes believes the time is ripe for CBS to expand its already strong reputation for excellence in teaching and research.

"The subject of biology is going through an unprecedented explosion of knowledge, partly as a result of genomics and new technologies, and it's a fantastic time to be a biologist. We are now able to tackle questions of complexity in organisms using multi and interdisciplinary approaches, and the answers are already providing tremendous possibilities for agriculture, aquaculture, health care and the environment. The opportunities seem to me to be there in Guelph to take an integrated approach to the subject both within CBS and through interactions with the other colleges."

Born in Wales, Emes earned his PhD in biochemistry from the University of Sheffield and held a post-doctoral fellowship at the University of Bern before joining the University of Manchester as a lecturer in 1981. From 1993 to 1997, he served as chair of the research division of plants, microbes and environmental biology in the School of Biological Sciences. He was also named George Harrison Professor of Botany in 1994. Emes chaired Manchester's Biology Teaching Board from 1998 to 2000, when he was appointed to his position as dean.

His research is concerned with understanding plant metabolism using biochemistry and molecular biology. Much of his team's current work focuses on starch, which constitutes a large part of the human diet and is used widely in both the processed food industry and non-food industries.

"Surprisingly, we still don't know a great deal about how plants make what is essentially a simple insoluble polymer made up of soluble sugar units," says Emes. "The challenge is both to understand the basic molecular mechanisms that control starch synthesis and to see how we can adapt these for our own purposes."

This work has received extensive funding, with current external support in excess of £1.2 million. Funding sources include the Biotechnology and Biological Sciences Research Council, the British Council, BioGemma U.K. and the European Union.

From 1991 to 1996, Emes was co-ordinator



Prof. Michael Emes

of a major U.K. initiative involving more than 20 universities and research institutes in the study of the biochemistry of metabolic regulation in plants. He is currently scientific co-ordinator of a EU-funded research program involving groups in the United Kingdom, Germany, France, Italy and Spain.

Teaching is also a priority for Emes, who has been involved in two major curriculum reviews at Manchester. In fact, "I think what I am

most proud of are the students, graduates and post-doctoral researchers I have had the privilege to teach and mentor. It is really rewarding to see others grow and flourish and perhaps to have played a small part along the way."

Emes will carry that same dedication to students in his new role at U of G. "The quantum changes going on in biology make it an exciting time for students as well as researchers," he says. "Guelph has an extensive portfolio of courses, offering diversity as well as depth, and I would hope that, as dean, I can play a part in developing the opportunities for students to benefit from — and play a full part in — the tremendous progress being made in our understanding of the living world."

Prof. Richard Reader, chair of the Department of Botany, who sat on the search committee for the CBS dean, says he was impressed by Emes's broad vision for the future of the college. "We look forward to working with him to enhance the college's reputation for innovation and excellence in both teaching and research," Reader says.

Chaired by provost Alastair Summerlee, the committee also included Prof. Anthony Clarke, acting dean of CBS; Prof. David Evans, chair of the Department of Molecular Biology and Genetics; undergraduate student Tim Singer; staff member Sylvia Dassoy of the CBS dean's office; Prof. Patricia Shewen, chair of the Department of Pathobiology; and CPES dean Peter Tremaine.

OAC Dean Plans Broad Discussions on Future

Agronomist aims to move college forward and maintain its leadership position

THE FIRST TIME Craig Pearson left his native Australia for Canada, he was 23, accompanied by his bride, June, and about to start a master's degree in plant physiology at OAC. Three decades later, it's déjà vu for the couple, who are preparing to make the move again. In December, Pearson will return to OAC to become its dean, the 12th in the college's 127-year history.

"Guelph offers a very rare opportunity to lead one of the world's best colleges of its type," he says. "It's a key player in the North American network of agricultural schools."

Pearson is currently the chief scientist in the Bureau of Rural Sciences in Australia's Department of Agriculture, Fisheries and Forestry. Based in Australia's capital, Canberra, he is responsible for scientific analysis and advice to government policy-makers.

He brings to OAC an extensive range of academic and administrative experience in Australia's university system. After completing his M.Sc. at OAC in 1971, Pearson earned his PhD at Macquarie University in Sydney. He then taught for a number of years, including a 10-year stint as professor and chair of agronomy at the University of Sydney.

From 1995 to 1999, he served as pro vice-chancellor of the University of Queensland and was foundation executive dean of its Faculty of Natural Resources, Agriculture and



Prof. Craig Pearson

Veterinary Science. As executive dean, he had fiscal and academic leadership responsibility for some 2,800 students, 460 full-time staff, six field stations and farms and six veterinary clinics spread throughout southern Queensland.

During his career, Pearson has also been a research consultant for organizations in Europe, Indonesia, Africa, Thailand and Argentina.

When he takes over the administration of

OAC, his first item of business will be to hold broad discussions about the college's future with its faculty, staff and students and the wider community. He'll be seeking their input on the role of agriculture in the 21st century and the role of OAC in shaping that future.

Agriculture is a cornerstone of our civilization, says Pearson. It's part of the global food network that influences human health and alleviates poverty. And it's a key part of natural resource management and issues around environmental sustainability, community well-being and regional innovation, he says.

"How we handle innovation in agriculture in the next 20 years will shape whether future generations judge our civilization as a success or failure."

Pearson's goal is to realize OAC's potential by developing and implementing a distinct plan for the college.

"This will address the role of the main campus and the three regional colleges, taking account of existing clients and a desire to broaden our client base," he says.

"OAC's future is to be a leading and distinctive global innovator within the contexts of being part of a Canadian university and a player in global networks of education, research and innovation."

The new dean anticipates strengthening OAC's links with a worldwide network of agri-

cultural schools.

"I see myself as a leader and a facilitator," he says. "I believe it's most important that the University's faculty and staff, students, alumni and the community feel they are invited to participate in discussions and planning processes."

He promises to imbue OAC processes with a healthy dose of aspiration and commits to "setting big goals in short time frames" that will move OAC forward and maintain its leadership position in the years to come.

Ryan Ramsey, a PhD student in the Department of Environmental Biology who served on the search committee, says Pearson "brings fresh blood and an international perspective" to OAC.

"He has a very good vision for where the college could fit on the world agriculture stage. OAC could be one of the top five agricultural schools in the world, and Dr. Pearson's past experience and international outlook will help us get there."

Chaired by provost Alastair Summerlee, the search committee also included Prof. Robert Brown, Landscape Architecture; William Curnoe, director of Kemptville College; Prof. Kees de Lange, Animal and Poultry Science; Chris Gillard of Ridgetown College; graduate studies dean Isobel Heathcote; Prof. Barry Shelp, Plant Agriculture; and Prof. John Walsh, director of the School of Hotel and Food Administration.

BY STACEY CURRY GUNN

J. Martin Van Dam

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Royal Society of Canada Honours Philosopher

Scholar recognized for improving academic and public understanding of 'unexamined areas that oppress human and environmental life'

WHEN YOU MEET Prof. John McMurtry, it's hard to imagine he was ever anything but a philosophy professor.

Everything about the new Fellow of the Royal Society of Canada suggests someone who has spent a lifetime thinking about the ways of the world and formulating his understanding of them. Even at home, dressed casually in shorts and a T-shirt with no students in sight, he wears an aura of academia.

"As a child, I often wondered: 'What am I doing here?' says McMurtry, sitting at a paper-scattered writing table where he is working on a new book, *Value Wars*. "As far back as I can remember, before my head even reached the top of a table, I remember questions arising and looking at people and social conventions with amazement. I didn't know at the time that was the opening horizon of philosophy."

He definitely knows it now. The Royal Society, which named him a fellow in June, recognizes him as a "pioneer" in the field of social philosophy. He specializes in deep-structural social philosophy, something he says has been "essentially a forbidden subject" around the world for more than 2,500 years. He has studied and written about subjects such as violent sport as a social paradigm, the transcurricular logic of censorship, the denial of children's

personhood, and the global corporate market as a life-blind paradigm.

"In the kind of philosophy I do, the world is my text, not words about words in self-referential discourses, the dominant trend of the last century," he says. "Ever since I took philosophy seriously as a subject, I have asked: 'What's at life-stake in this argument?' If there is nothing, and often there is not, or what is being said covers up what is at stake, I wonder whether philosophy becomes a parlor game rather than an inquiry into reality, truth and how to live. That has made my work, ironically, surprisingly lonely."

McMurtry says he thinks of social philosophy as "thought at the most profound level, excavating unexamined presuppositions of our larger social order, now a global order, and exposing them to critical interrogation. Ultimately, philosophy's quest is for a truer or more comprehensively connected way of understanding and being, spelling out the inner logic of how it all hangs together and can become better, by which I mean more fully life-conscious."

McMurtry's thoughts have been published in five books and more than 150 journal articles and book chapters. And it is these writings that the Royal Society credits with helping improve both academic and public understanding of "unexamined areas that oppress human and envi-



Prof. John McMurtry
PHOTO BY BOB HOUSSER

ronmental life." So it seems unimaginable that philosophy, teaching and writing were not McMurtry's life-long ambitions. But the truth is, he pursued several professions before settling on academia, including professional football with the Calgary Stampede, writing for TV and print, and teaching English in inner-city Toronto.

"I became very disquieted after teaching society's most disadvantaged young and travelling the world for a year in between," he says. "All the breaks were coming my way... but I couldn't find the space to think through."

An MA graduate of the University of Toronto, he applied for and won a Canada Council doctoral fellowship to do research on Karl Marx

at the University of London. "Accepting the fellowship changed my life. I went to about a third of my income with a new child and my wife, Cynthia, living out of a van for six weeks before we could get a flat, trying to adapt to the most advanced intellectual demands I'd ever experienced while living out of a suitcase. But the open days in the library and time to research were like breathing deeply. It wasn't until many years later when I became a full professor that I thought: 'I guess this is what I'm going to do.'"

McMurtry joined U of G in 1970 and, from the start, wrote publicly and professionally about what "gripped me as the burning issues that people in and out of philosophy take as given. If you read my record of publications and papers, you might think I was all over the block across disciplines, professional and public divides and philosophical problematics. But the truth is that the big questions I started out with were just being investigated in all the places I thought most needed it — that is, a bottom-up reliving of our ways of understanding where the life-stakes are most compelling. Philosophy taught me surgical precision and a universe of classical philosophical principles and visions, east and west, to go with my literary education and love of language — all playing in on the long journey of

building a philosophy of life."

Travelling such a "career path" — a concept McMurtry views as a "close to a metaphysical cage" — has not always been peaceful. He admits his work has often been attacked and says "only surprising ingresses of support from quite wonderful minds, often my heroes, have kept me going."

One colleague who stands out in his 30 years at U of G is retired colleague Alex Michalos. "He, too, related to the actually existing world and its burning problems and was most important in defending me early on against administrative demolition," says McMurtry. "That is how the university works. The deep defenders of its mission are at the heart of a civilized society, never more needed than today. The university is the home of the world reflecting on itself, but like everything else, its danger is in becoming an instrument of the corporate market."

McMurtry is the 21st U of G professor to earn the FRSC designation. Retiring College of Arts dean Carole Stewart says McMurtry's election to the Royal Society "adds further well-deserved recognition to the Department of Philosophy, which has now had five members elected to the society. We are delighted with this acknowledgment of the high calibre of scholarship of yet another of our colleagues."

Top Teacher Embodies Learner-Centredness

3M Fellowship recognizes sociologist's excellence in teaching, leadership, development of academic programs

PROF. FRED EVERS is a certified "excellent teacher." The Department of Sociology and Anthropology has recognized his innovative teaching style on three occasions, the U of G Faculty Association named him a Distinguished Professor in 1997 and, this year, he received a prestigious 3M Teaching Fellowship.

But his former students say they didn't realize just how good Evers is at his job until they left his classroom. Once they graduated, found jobs and started working, they realized that what Evers told them over and over again is true: learning how to learn is a marketable skill.

"He always assured all of us that there are indeed jobs available for liberal arts graduates," says master's student Andrea Stepien, who took courses from Evers as an undergraduate. "He said that with some persistence, we would be able to secure positions that were not only suited to our individual skill sets, but that we would also find enjoyable and fulfilling."

Andrea Hammell, a 1998 BA graduate, adds that Evers taught her how to identify her skills and talents, something she says helped her get into law school and later land a job with the Department of Justice. "He takes on the responsibility for his students' development, not just during their time at Guelph, but also



Prof. Fred Evers
PHOTO BY DEAN PALMER/THE SCENARIO

during the difficult transition between university life and the world beyond."

Making sure his students are prepared for that transition is something Evers has dedicated the past 25 years to doing. "I have always been concerned with what students are getting out of the university experience," he says. "You get to know your students when you're a teacher, and you worry about how they're doing in the classroom, but you also worry about what happens afterwards. You want them to get good jobs and promotions; you want them to succeed. I have always made this a priority."

Evers designed programs and

courses to teach students how to identify the skills they can bring to a job. He then shows them how to focus and develop those talents.

"I want to build up my students' confidence. I tell them that just getting into Guelph is an accomplishment — it's a hard university to get into. Then I tell them they should use being here as an opportunity to learn how to learn, that it's an incredibly important skill. Then I help them take steps to realize it and believe this."

Evers, a PhD graduate of Iowa State University who joined U of G in 1985, has made the importance of learning and the transition from school to work his area of expertise since the 1980s. While teaching at the University of Western Ontario, Evers and a colleague were hired by a consortium of university presidents and corporate executives to study whether employers believed that university graduates lacked technical skills. Evers interviewed employers and business owners, and says what they told him was the opposite of what he expected to find.

"They said they were willing to provide technical training, but they found university graduates often lacked the basic skills to write, problem solve and make decisions. I was very intrigued by this and continue to focus my research and teaching in this area."

Evers went on to co-write a book about his work, *The Bases of Competence: Skills for Lifelong Learning and Employability*, with James Rush and Iris Berdrow. He also developed a capstone course in his department called "Transitions From School to Work."

"We have so many students who major in sociology simply because they're interested in the subject," says Evers. "Then in third year, they start to panic and say: 'What am I going to do with this?' I tell them: 'There's a lot you can do with this.' This course teaches them what they have to offer."

The transitions course asks students to develop skills portfolios that require them to reflect on the talents they've developed at school. They also organize retreats and write reflective papers on their community-based learning experiences.

Prof. Michael Nightingale, assistant vice-president (academic) and former dean of the College of Social and Applied Human Sciences, says the transitions course was "one of the most positive developments" in the college during his term as dean. Initially, the course was offered annually, but it has grown so popular, Evers will teach two sessions this academic year.

"This course is the strongest evidence of Fred's efforts to link research and teaching in the

classroom," says Nightingale. "Rarely have I encountered someone as dedicated to teaching as he is."

Evers is also known for playing a seminal role in developing the idea of U of G becoming a "learner-centred" university. He helped found the Centre for Educational Research and Assessment on campus and has worked closely with Teaching Support Services (TSS) on numerous projects.

"Fred's approach to teaching embodies learner-centredness," says TSS director Prof. Julia Christensen Hughes, who helped nominate Evers for the 3M Award.

Evers is the 10th U of G faculty member to receive the fellowship, sponsored by 3M Canada and the Society for Teaching and Learning in Higher Education. It recognizes scholars who excel in teaching, leadership and the development of academic programs.

Evers says he was "delighted" by the award, calling it a "tremendous validation of what I'm doing. I want my students to know the value and importance of learning, but I also want them to learn this on their own. I want them to be self-reliant learners, to figure out what they know, what they have to offer, and to put learning first. That's what being a learner-centred university is all about."

BY LORI BONA HUNT



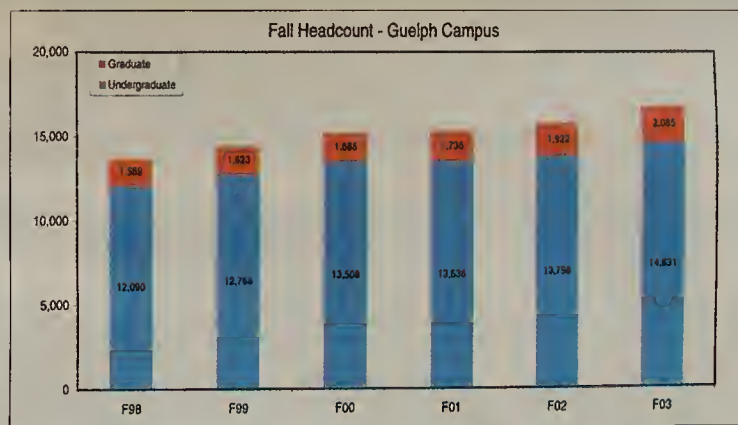
T O W A R D 2 0 1 0

Accommodating growth with quality through forethought and planning

THREE YEARS AGO — after the Ontario government announced major changes to the high school curriculum that would dramatically increase the number of applications to the province's universities in 2003 — the University of Guelph immediately began charting a new course for its next decade.

The President, in conjunction with the Senate Committee on University Planning, established a Planning Steering Group and four "planning clusters" to consider how this phenomenon — dubbed the "double cohort" — would affect the University of Guelph. These committees involved faculty, staff and students.

The groups were also to weigh the implications of other demographic factors expected to add approximately 90,000 extra students into the province's universities between 1998 and 2010. These include more people aged 18 to 24 in the province generally, an increased participation rate, and the prediction that more adults will be heading back to school.



As the planning clusters began their work, it was evident that the task of accommodating future growth while preserving the quality of U of G's academic programs, faculty, students and the educational experience meant that the University planning

process had to incorporate the University's long-range plans for its research activities, for the recruitment of new faculty and staff, and for the expansion and renovation of campus buildings and facilities.

The planning process also had to

keep foremost in mind the University's mission and strategic goals, which focus on learner-centred teaching, advanced research based on the University's areas of expertise, and opportunities for lifelong learning, collaboration and internationalism.

In addition, the planning clusters had to deal with one more challenge — not knowing how the province would fund the expected growth. This past May, the government finally unveiled a three-year funding plan intended to help colleges and universities admit more students. The province, however, is providing the bulk of the funds in 2003-04 — the year of the double cohort. No funds were allocated for growth before 2001-02 or to restore quality in the system.

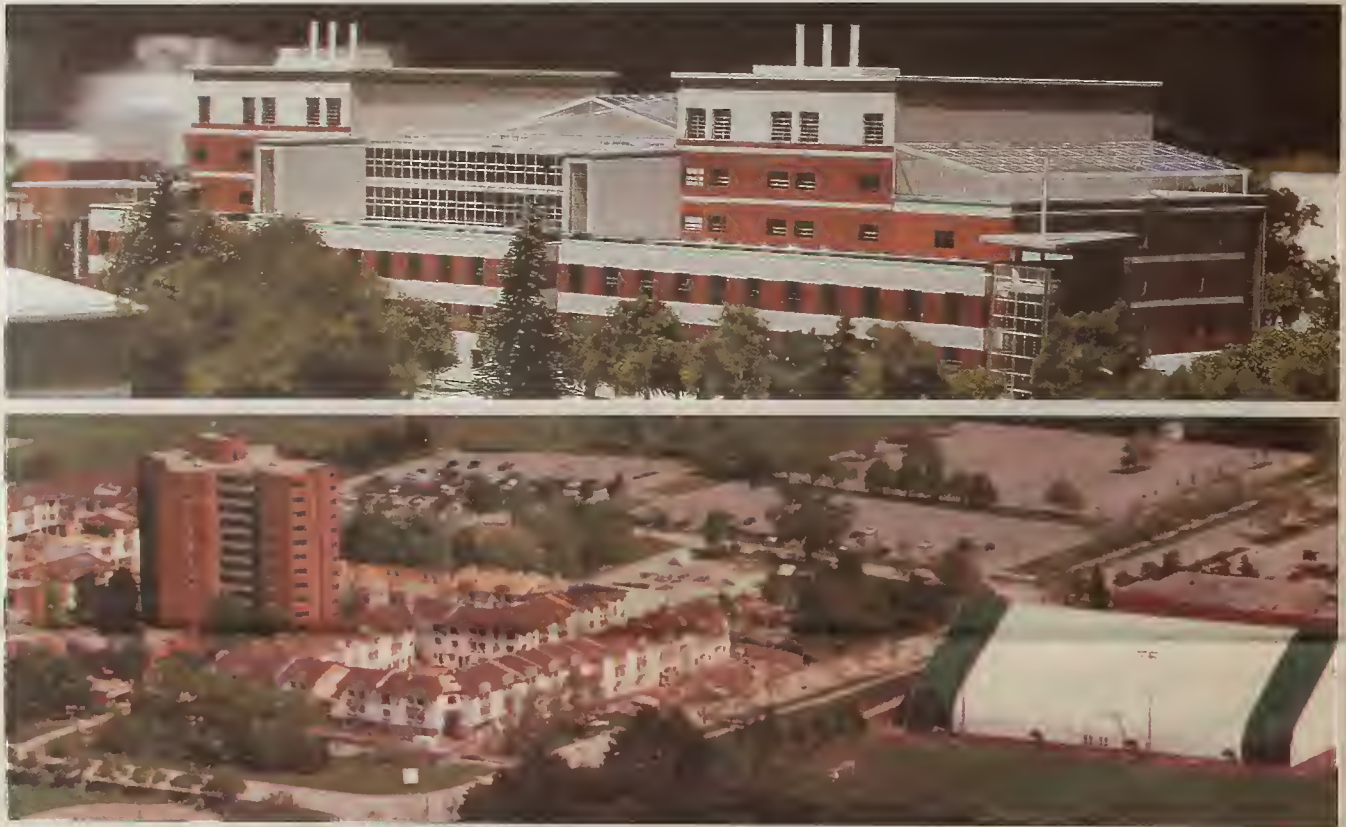
Despite of these constraints, the planning groups, in consultation with members of the campus community, have developed a number of important strategies and recommendations that not only accommodate growth while trying to protect quality, but build on the University's historic strengths. This planning supplement summarizes these strategies and describes the principles, decisions, and concerns that emerged during that process. It also provides an update on the directions the University of Guelph is considering.

"This planning activity has involved the various governance bodies of the University, faculty, staff, students, and alumni. The result will be growth with quality, and the largest transformation of the University in a generation. The effort is a testament to the foresight, dedication and talent of our community."

PRESIDENT MORDECHAI ROZANSKI

*"These are exciting times for the University of Guelph. Planning to
and will bring tremendous demands on people. Building on this scale will also be
Everyone's patience and co-operation will be n*

ALASTAIR SUMMERLEE, V



One of the biggest construction projects in the history of the University of Guelph is the planned Science Complex. The architectural firm of Robbie/Young & Wright is designing the structure, which might eventually look like the design above (top image). A final design is expected to be approved by the campus community this fall. When the entire project is completed in 2004, the modern teaching and research facilities will accommodate projected enrolment growth and deliver programs that are world class. In preparation for such growth, the University has already built a 60-foot-high Sports Dome (above right). It features a large artificial turf field and four-lane running track. Near the Dome is the new East Village Student Residence (see back page for more details on this project).

INCREASING OUR ENROLMENT

As a response to enrolment pressure, the University began increasing its enrolment by modest amounts in 1998. The most significant intake of undergraduate students, however, is planned for 2003-04 and 2004-05, the anticipated peak of the double cohort years, and will decline thereafter.

Keeping in mind that U of G's physical structure and facilities were designed to accommodate no more than 18,000 students, the University intends to:

- Increase student enrolment to 17,600 by 2008, an addition of 3,600 students compared to 1998 levels.
- Accommodate another 2,000 students, also by 2008, at a new University of Guelph - Humber building.

CHANGING THE PHYSICAL LANDSCAPE

Realizing that growth would put great stress on universities' existing infrastructure, the provincial government

has begun funding university capital projects through its SuperBuild Growth Fund, Ontario Research and Development Challenge Fund and Access to Opportunities Program (ATOP), among others.

At the University of Guelph this has resulted in construction activity that now exceeds \$200 million and is transforming the face of the campus.

With funds from ATOP and Hewlett-Packard Canada, the University has added a two-storey extension to the north side of the Thornbrough Building, containing engineering and computing labs, a 100-seat lecture theatre, and new office and faculty space.

To accommodate more students, the University has also built an all-season, covered athletics field and a 660-bed, townhouse style complex that has just opened.

On the horizon are the following major projects, all supported by the SuperBuild Growth Fund:

- A leading edge, 50,000 sq-ft Classroom Complex designed to be a

hub of teaching and learning for students from all colleges and disciplines.

The Complex, scheduled to open in 2003, will accommodate about 1,500 students in four lecture halls and five smaller classrooms. It will feature the very latest in computer-based multimedia equipment for the delivery of technology-assisted courses (see above right).

- The completion of a 350,000 sq-ft Science Complex on Gordon Street that will provide state-of-the-art teaching and research space. The new Science Complex, Phase 2 of the Science and Classroom Complex project, will be located between the Axelrod Building and South Ring Road. The five-storey building will adjoin Axelrod's southwest corner at all floor levels and encompass the Hagen Aqualab and the Institute of Ichthyology. Its target completion is 2004.

Details of both the internal and external design for the Science Complex

have yet to be approved by members of the campus community but on the next page is an initial architectural rendering of what the Science Complex might look like once completed.

- The construction of a new 130,000 sq-ft Guelph-Humber building. Located in North Toronto, construction is slated to begin in Feb. 2002, with a scheduled opening in fall 2003. It will offer programs in social sciences, broadcast arts, business and wireless technology, telecommunications, and distributed computing, among others.

Each of the above projects has been overseen by planning groups consisting of faculty, staff and students. The planning process for these major construction projects has also involved detailed consultations with—and input from—the University of Guelph community. Anyone interested in adding their thoughts or suggestions to this process should contact Provost Alastair Summerlee, chair of the Planning Steering Group, directly at ext. 3845 or

to a.summerlee@exec.uoguelph.ca. In future issues of @Guelph, the Steering Group will continue to keep the campus community informed of new developments concerning these, and other, building projects.

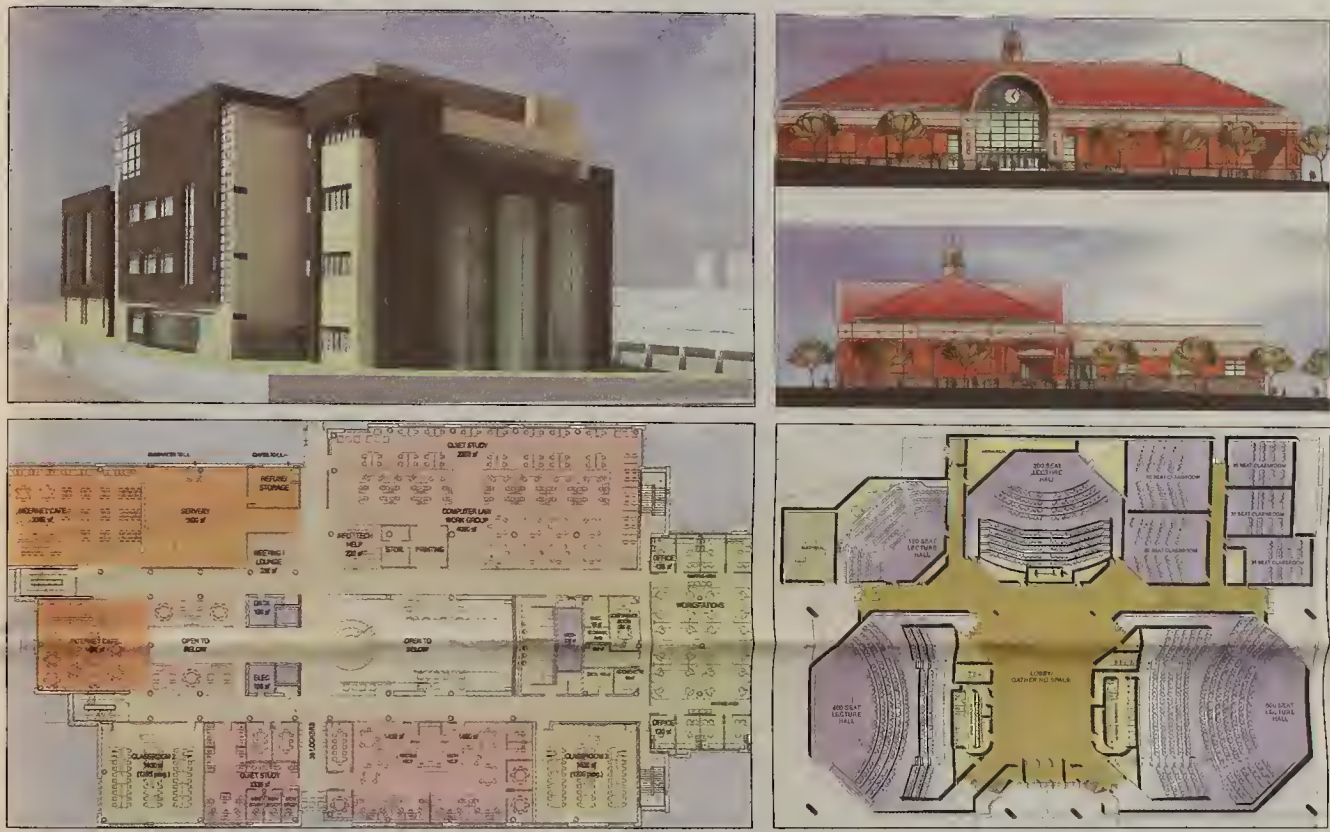
While the Science and Classroom Complex projects will vastly improve the campus, there is still much work to be done. The University's physical plant is on average 10 years older than the rest of the Ontario university system. As a result, our deferred maintenance has been mounting and facilities renewal is essential.

The University has already begun addressing some of this deferred maintenance. One of our challenges, however, is that we are restricted from using capital funding that has been allocated for new projects. Nevertheless, we have undertaken renovations to a number of buildings and facilities, with funding from various agencies (see story on Page 2 of @Guelph). Some of the major work includes:

- Infrastructure and fire safety and

*takes a great deal of time from many members of the community
be noisy and dusty at times and everyone will be inconvenienced in some way.
needed but the end result will be worth it."*

VICE-PRESIDENT AND PROVOST



The new Classroom Complex being built on the U of G campus (above right, exterior elevations and floor plan) will accommodate approximately 1,500 students in state-of-the-art facilities consisting of four lecture halls and five smaller classrooms. The University of Guelph-Humber College building (above left, exterior design and second-floor plan) will be located in North Toronto and feature a 225 sq. metre atrium running through all its four storeys; skylights, light wells and two storey south-facing windows; a second floor "learning commons" incorporating open-access computer work stations; and quiet study areas. There will also be centralized academic offices on every floor with adjacent meeting rooms and office support facilities.

- related code compliance projects.
 - The complete renovation and expansion of the Canadian Research Institute for Food Safety. Funded by the Canadian Foundation for Innovation, the renovation, which will add significant laboratory and office space, will be completed this fall.
 - The expansion and addition of transgenic greenhouses to Crop Science, also funded by CFI, will be completed this fall as well.
 - A renovation of the Ontario Veterinary College which will add laboratories and a link to enhance safety. This is the first phase of a much larger redevelopment planned once funding is identified.
 - Planning for renovations to classroom space in the MacKinnon building. Actual construction will take place over the Winter Break or next spring.
- As we look ahead to 2001-02, we anticipate that much of this year will be devoted to detailed planning. The Planning Steering Group released two

reports at the end of the last academic year. Part 1 focused on academic planning and the impact of growth. Part 2, focusing on facilities and infrastructure, will be shared with Senate this fall and was the basis of a planning day at the end of August. The outcome of these reports and the planning days will be a number of specific activities for the fall that will involve further input from members of the community.

ATTRACTING AND RETAINING TOP-NOTCH FACULTY AND STAFF

Over the next 10 years, due to retirements and growth, the University will need to hire a large number of new faculty and staff.

The Office of the Provost has established the Advisory Group on Faculty Recruitment and Retention. To date, the group has:

- Streamlined the new faculty hiring process. Department deans and chairs can now initiate new searches sooner and make firm offers of

- employment earlier on in the process.
 - Launched a faculty recruitment Web site that consolidates all faculty postings and markets the University of Guelph to prospective employees.
 - Surveyed new faculty on their views of the institution. Based on this survey, the group has produced a faculty recruitment brochure outlining the University of Guelph's academic, research and teaching strengths as well as the many lifestyle advantages of the City of Guelph. The brochure will be available to departments this fall.
 - In 2001-02, the group will look at options to assist new faculty with spousal employment and enhancing support for new employees' transition to the Guelph community. As part of this, the group has already developed a comprehensive information package on the University and the community, given to all new faculty.
- Additionally, the Office of the Provost in association with the Office

of Research is now developing a recruitment database and reviewing ways to improve start-up packages for new faculty. Other planned activities include:

- Identifying new ways of recognizing and rewarding faculty and staff who make outstanding contributions to the institution.
- Enhancing support to sessional and contractually limited employees.
- Improving faculty training programs.

Departments and units are also being asked to review their staffing needs in concert with planning for faculty recruitment. Not only will more staff be needed but as the student population increases, the University will have to invest more funds in staff training and development.

ADVANCING OUR UNIQUE RESEARCH STRENGTHS

Over the past couple of years, through the coordination of the Office of Research and the creativity and strength of our faculty, the University of Guelph has been very successful

in securing about \$100 million in funding from federal and provincial government sources in support of our research programs, facilities and personnel. The funds have come from the Canada Foundation for Innovation, the Ontario Research and Development Challenge Fund, the Ontario Innovation Trust and the Canada Research Chairs program, among others.

The following are just a few examples of the projects supported to date:

- The creation of the \$7.1 million Centre for Food and Soft Materials Science at the University of Guelph. The Centre is unique within Canada, consisting of a large, interdisciplinary team of food and soft materials researchers with a wide breadth of expertise and techniques who will solve challenging problems in the new, emerging field of soft materials science and technology.
- The opening of the \$7.9 million Controlled Environment Systems Research Facility dedicated to grow-

"The East Village Residence's Town Hall will be phenomenal, as will all the new telecommunications technology that has been built into the design. I think, however, that one of the best things about East Village is that it's a quantum leap for accessible living, something that was really needed on the U of G campus. JASON TRICK, PRESIDENT, EAST VILLAGE RESIDENCE, AND U OF G STUDENT



Designed specifically for upper-year students, the just-opened 660-bed East Village Student Residence took about a year to complete. The townhouse complex is suite-style, with each suite having either four or five bedrooms, two bathrooms, a kitchen and a shared living area. Once in full operation, the residence will also feature an attractive "Town Hall" area where students will be able to meet and socialize; courtyards; and computer network connections to all student rooms.

ing and supporting plant life during long-term space missions. This facility is the most sophisticated of its kind in the world in the field of advanced life support.

- The establishment of a \$20.1 million Food System Biotechnology Centre conducting research into animal genetics, plant genetics and transgenics, and the basic molecular research underlying these areas.
- The launch of the \$5.2 million shared Hierarchical Academic Research Computing Network (SHARC-Net), one of the most powerful supercomputing installations in the world and an enormous ally for U of G researchers and their colleagues at the universities of Western Ontario and Windsor, McMaster and Wilfrid Laurier universities, and Sheridan and Fanshawe colleges. The U of G research focus in this project will be on biocomputing, including database mining, protein structure and dynamics simulation and bioinformatics.
- The creation of the \$8 million

Canadian Research Institute in Food Safety which brings together top researchers from the departments of Food Science, Mathematics and Statistics, Pathobiology, Population Medicine, and Animal and Poultry Science, the School of Engineering, Laboratory Services, Health Canada and Agriculture and Agri-Food Canada, to deal with complex food-safety issues and to improve food safety for Canadians.

- The appointment of U of G's first five Canada Research Chairs. The chairs, a first instalment in an expected 35 such positions to be named at U of G over the next five years, have received \$5.2 million in research support.

Over the next decade, the University will continue its efforts to enhance its established and still-growing world-class "niche" research programs, so as to qualify for further research funds. But we will also not neglect the non-traditional or individual areas of research. The University must continue to maintain and assert its independence as well as fos-

ter unique and innovative research and scholarship in all disciplines. The success of Guelph faculty in national and international competitions is an important engine for advancing health, culture and social and economic well-being, technology transfer, and graduate student growth.

Other critical issues that will need to be addressed are:

- Ensuring that increased enrolment is not achieved at the expense of the research and scholarly capability of the University.
- Achieving optimal balance between public and private sector funds in support of research initiatives, while maintaining the independence of research carried out by members of the University community.

PROVIDING THE VERY BEST FACILITIES

As enrolment rises, so will the demand for faculty and administrative space, for additional student support services space, and for study, living, and dining space. We have already undertaken a number of ini-

tatives to accommodate growth, such as erecting the East Village Student Residence and conducting a classroom audit. The critical areas we will be working on this year include:

- Determining the feasibility and need of building another student residence. Close to 90 per cent of our first year students and some 40 per cent of all students live on campus, giving us a great opportunity to provide learning opportunities in residence, which has been shown to enhance retention.
- Developing allocation strategies for maximizing the use of teaching, research, administration support, services and residence space. This will include determining priorities for renovation of existing space, as well as for retrofitting classrooms, labs, and even residences with up-to-date technology: "smart" classrooms with high-connectivity network access should become the norm.
- Reviewing existing space for all support services, including registrarial, student affairs, co-op education ser-

vices and other student facilities on campus, as well as study space for students, to determine future needs.

- Developing a comprehensive approach to electronic learning and support for information technology services on campus. This will take into account growth of information services needed to support a larger campus population and new initiatives, such as biocomputing and integrated teaching between institutions.

A key factor of the all accomplishments discussed in this document has been the participation of the U of G community in the planning process.

"This planning activity has involved the various governance bodies of the University, faculty, staff, students and alumni," says President Mordechai Rozanski.

"The result will be growth with quality, and the largest transformation of the University in a generation. The effort is a testament to the foresight, dedication and talent of our community."

WEAVING A WEB FOR THE FUTURE

Web master aims to help University capitalize on potential of the Internet

BY STACEY CURRY GUNN

WHETHER YOU'RE A U of G employee logging on to your computer for work or a prospective student checking out courses from halfway around the world, www.uoguelph.ca is an instant connection to the University of Guelph's electronic pulse. What people experience when they arrive at this digital destination is the responsibility of Stuart Robertson, who became U of G's first full-time Web master last November. And it has evolved considerably since he arrived.

"My goal was to take the home page from a generic Web page to a useful information source for the Guelph community," says Robertson. "The idea was to make it more effective and more accessible and to follow more of the emerging Web standards."

"The Web is a way for people in the University community to communicate with each other and with people outside the University. It's a way of attracting new students to consider the programs offered here and letting people know what's currently happening on campus. It allows people to interact, share ideas and experience a new learning and teaching tool."

Robertson's first priority was to give the home page a fresh new look and add features like daily news and events updates. He put an improved search engine on the page, along with a link to Webmail and a Weather Network forecast for Guelph.

Behind-the-scenes improvements have enhanced the site's accessibility for people with visual impairments, who use a program that reads Web content to them, as well as for those who need to translate the content into other languages and those who access the site using a non-PC device such as a Palm Pilot.

The revamped Web site home page made its debut in January. Accolades weren't far behind.

Most notably, U of G won a Canadian Council for Advancement of Education (CCAE) gold medal for the best institutional home page on the World Wide Web. CCAC judges commended the site's design, organization, functional approach, user-friendliness, accessibility, downloading speed, placement of search tools and maps, balance of news stories and weather window feature. The home page "conveys campus culture at a glance," the judges said.

"It was great to know that the work I was doing compared so favourably with all the other really top-notch university Web sites across Canada," says Robertson. "It validated that I was on the right track."

Site usage also bears evidence to the home page's improvement. It has increased substantially since the new home page was introduced. It now gets an estimated 25,000 visits each day.

And there are more changes to come, Robertson promises.

"I've received a lot of feedback and good suggestions that we'll be trying to incorporate into the next revision of the University site."

Robertson came to Guelph from Toronto with a BA in film and video production from York University. The 27-year-old had five years of multimedia production experience under his belt from his work for Human Resources Development Canada



(HRDC). There, he picked up the hands-on training and technical skills that complemented his film studies and allowed him to start creating Web pages.

"They had a fully equipped video and multimedia production studio," says Robertson, "but it was short-staffed, so that gave me a lot of opportunities to work in a variety of different areas: video production and editing, camera work, coding Web pages, database management, Photoshop and 3-D animation." In 1999, he became HRDC's regional Web master for Ontario. A year later, he accepted U of G's newly created Web master position in Communications and Public Affairs. His fiancée, Catherine Balls, relocated to Guelph with him and is now the events co-ordinator for the Downtown Board of Management.

For Robertson, the move to U of G is "a great opportunity to be able to help steer the direction the University is going to develop its online presence. There is lots of room for growth."

He sees his film background as a natural fit for where the Internet is going.

"Even though print media and the Web seem to be the closest fit now, the Web is moving into a phase where other media will be equally important. In the near future, understanding how film and television work will be as much an asset to working with the Web as an understanding of print media is today. Unlike a lot of other media, where a select group of people get to communicate to the masses, with the Internet, you can have a

'many to many' form of communication. Almost anyone can be a content producer rather than just receiving content from a small group of people."

Robertson is one of many people and groups at the University who contribute to the institution's presence online. Colleges and departments maintain their own sites within the overall University framework. Teaching Support Services, the Office of Open Learning and Independent Study/access@uoguelph.ca offer courses online. Part of Robertson's responsibility is to establish policy, guidelines and standards for official U of G Web sites such as these.

In addition, anyone with an e-mail address can post a personal Web site. Robertson's own personal Web site, www.designmeme.com, is a collection of thoughts and notes related to Web design, video production, comic art, animation, typography and computer art. The word "meme," he explains, refers to a thought, style or behaviour that passes from person to person in a culture. "It's like a mental gene," he says.

His site is a reflection of Robertson's thirst for learning more about his chosen field, which is also necessary for his job. He keeps current by constantly reading industry magazines, journals, Weblogs (online diaries) and newspapers. He reviews new software, talks to colleagues at other organizations and tries to keep up with what others are doing on campus in regard to the Web.

"There's a lot of information, a lot of change, and it happens quickly and doesn't stop," he says.

Part of his role is to anticipate where the Web is going in the future, so the University can capitalize on its potential.

"The Web of today won't be the Web of tomorrow," he says. "I'm trying to help people forecast the future and the things we're going to be doing. As bandwidth continues to increase, people will use

more rich media on the Web, such as audio, video, virtual reality and applications we perhaps haven't even considered."

Wireless communication is already taking off in places such as Japan and Europe, where it's common for people to access the Web using mobile phones instead of a PC. And as that trend grows, it will create a whole new set of communication challenges.

One of Robertson's goals is to further remove the technical barriers that prevent people who want to use this medium from doing so. He teaches courses at the University to help people create Web sites and post content online, and is developing new ways to make it simpler for them to do so.

"What I like about the job is that it involves a lot of different disciplines," he says. "I get to use my left brain, my right brain, the combination of art and science, design and programming. Unlike some media that have been around longer, the Web is still very new, still evolving, and we're still discovering the best way to use it and what it's best suited for. I enjoy helping with the vision and the strategy to guide the evolution of U of G's online presence."

"The Web is a valuable tool that allows everyone on campus to communicate and represents us to the outside world. It's exciting to be involved in building this new medium, to shape how it evolves and what it's going to turn into."

PHOTO BY DEAN PALMER/THE SCENARIO



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LETTERS

WALKERTON STUDENTS EXPRESS GRATITUDE

We are writing to the faculty, staff and students of U of G on behalf of our class and our school to thank you for your support since the Walkerton *E. coli* crisis.

Reflecting back, we remember the difficulties we all faced as a result of the contaminated water. We were off for nine days initially, then once we were back in school, 300 of us were crammed into a building of two rooms. Learning was difficult because of the environment, distractions and a lack of desire. We all missed a valuable chunk of our education. We were also all coping with strong emotions as we worried about our friends, families and neighbours.

The kind words and support shown by you all made a great difference. To know that we were thought about, that people cared and that your community was there for ours was a tremendous comfort. We could never have pulled through our struggle without your aid, and for that, we thank you all.

Students of Sacred Heart High School, Walkerton, Ont.

PESTICIDES A CONCERN

About 10 years ago, I wrote a letter to @Guelph voicing my concern about the continued use of pesticides on our campus. Well, 10 years have gone by without much change.

Many concerned owners in Guelph are now proudly showing beautiful gardens and greens without the use of pesticides, fertilizers and other chemicals. Some of them win local gardening competitions. Whole neighbourhoods in Canadian cities are now proudly trying to maintain their greens, gardens and parks without using pesticides, with excellent success.

I always thought I worked for a university that was a leader and front-runner in environmental concerns. I think it's high time for a change — for U of G to no longer use pesticides and to become the leader we claim to be as one of the best universities in Canada.

Prof. Henry Staempfli
Clinical Studies

THANK YOU TO ALL

Many thanks to all of you who attended my retirement farewell April 30. I had wanted to thank each of you personally, but I know I missed a few. The piper and Noel Edison's hastily assembled vocal troupe were a nice touch. To my rousters, I remind them that their turn will come in due course. After 33 years at the University, I have secrets beyond my office, unprotected by confidentiality!

To those I've worked with in the Counselling Unit, you're a great bunch and you know I'll miss you all terribly. You organized a great, unforgettable reception. My wife, Elizabeth, and I look forward to using the kind travel gift to visit my daughter in Colorado.

Stan Litch

SNO Discovery Solves Mystery of Missing Solar Neutrinos

Finding at Sudbury Neutrino Observatory sparks media interest around the world

UOF G PHYSICISTS and their colleagues from across Canada and around the world celebrated a major discovery this summer that solves a 30-year-old mystery.

The first published findings of the Sudbury Neutrino Observatory (SNO) definitively answer the question of the missing solar neutrinos. This puzzle has baffled scientists since the early 1970s when experiments first detected these tiny particles of matter produced by the sun, but only a fraction of the amount that should be arriving on Earth. That meant there was something wrong either with theories of the sun or with the understanding of neutrinos.

The SNO data, released publicly in June and presented to the Canadian Association of Physicists Annual Conference, shows that the electron neutrinos generated by the sun change into other types of neutrinos as they travel to Earth.

"We were pretty excited about that," says Prof. John Simpson, Physics. He and Guelph colleagues Profs. Jimmy Law and Robin Ollerhead, as well as the graduate students and post-docs who work with them, knew as long as a year ago that the data from SNO had such significance. But they, and their many SNO colleagues, had work to do before broadcasting the news.

"We had to make all the checks possible to make sure it wasn't a mistake," says Simpson. "We double-

and triple-checked. And an independent group checked."

Response to the public announcement was both surprising and gratifying, he says. Media around the world carried the story, and the SNO Web site received 280,000 hits the day after the news broke.

The data supplied by SNO have deep implications for physics theory beyond confirming models of sun energy production, says Simpson. The fact that neutrinos are capable of transformation indicates they have mass, albeit very little. That information throws a wrench in the Standard Model of Elementary Particles, which predicted the existence of neutrinos but assumed they had no mass.

Estimates of the amount of mass in neutrinos provide another clue as to the fate of the universe. If the universe collapses someday (known as the Big Crunch theory), it won't be neutrinos that cause it. They weigh too little to exert that much pressure.

"The best guess is that the universe is going to expand forever and at a faster rate," Simpson says.

Neutrinos are the most common, but least understood, particles of matter in the universe. There are three types — electron, muon and tau — based on the subatomic particles they're associated with. Each second, billions of these tiny ephemeral particles bombard every square centimetre of the Earth's surface undetected, passing through all sorts of

matter: people, buildings, rocks, the Earth itself.

Although other observatories around the world are able to detect electron neutrinos, Simpson, Ollerhead and Law were part of the team that designed the sophisticated instruments at SNO that show neutrinos are capable of oscillating among electron, muon and tau types.

SNO is a \$70-million facility located two kilometres underground in Inco Ltd.'s Creighton nickel mine, the deepest working mine in North America.

Evidence of the neutrinos passing through the Earth is captured by a giant acrylic plastic ball that's 12 metres in diameter and filled with 1,000 tonnes of ultra-pure heavy water. Because heavy water contains heavy hydrogen atoms that each contain one more neutron than ordinary water does, the neutrinos passing through can collide with this neutron and convert it into a proton plus a high-speed electron. This electron emits a faint but significant flash of light. That light is picked up by some of the 10,000 detectors that line the sphere's surface. The flashes are recorded and analysed to extract information about the neutrinos that are the ultimate cause of the light.

"Another process, where the neutrino breaks up the heavy hydrogen into a neutron and a proton, makes SNO unique among the current experiments in existence," says Simpson.

"The results from data from this process, which should be announced in the fall, will add further to our knowledge on the oscillation of neutrinos."

His U of G research team, which includes research associate Pillalamarri Jagam, built the instruments that monitor the level of background radioactivity in SNO's innards. They measure radioactivity in materials ranging from the heavy water to all the components of the detector itself. It's essential to ensure that radioactivity levels are low because radiation sends signals similar to the ones sparked by the approximately five neutrinos the detector picks up daily.

Law, a particle physicist, has been involved since 1991 in writing and testing the software used by the project collaborators to analyse the data the detector generates.

Ollerhead has been working with a group that is developing instruments, to be deployed in a year, that will more accurately measure muon and tau neutrinos.

Post-doc Ian Lawson analyses SNO computer codes and calibration data to ensure the detector is working properly.

Beyond Guelph, the SNO collaboration brings together almost 100 scientists from 11 universities and laboratories in Canada, the United States and the United Kingdom.

BY STACEY CURRY GUNN

Cutting-Edge Research Funded

Continued from page 1

U of G will receive the following support from CFI and OIT:

- up to \$1,961,816 to fund advanced data acquisition and analysis systems for beef cattle breeding, a project headed by Prof. Stephen Miller, Animal and Poultry Science;
- up to \$1,192,954 for research on cropping systems, soil composition and soil and plant nutrient management by Profs. Richard Heck and John Lauzon, Land Resource Science, and Bill Deen, Plant Agriculture; and
- up to \$687,216 to Prof. France-Isabelle Auzanneau, Chemistry and Biochemistry, for equipment to develop new carbohydrate-based drugs.

Miller's research involves improved data acquisition for targeted changes in beef cattle breeding. This will involve taking live animal measurements in a state-of-the-art cattle and animal facility. The animals will be monitored for food intake and behaviour, and their body composition will be evaluated using ultrasound as well as infrared and digital imaging.

Heck, Lauzon and Deen are working to develop economically and environmentally sustainable cropping systems, understand the variability of soil composition and functionality in landscapes, and manage soil and plant nutrients. They plan to acquire field and laboratory equipment that allows them to conduct interdisciplinary, col-

laborative research. This includes monitoring soil and crop conditions using remote sensing and geophysical devices, and establishing and maintaining field-scale crop trials.

Auzanneau is pursuing cutting-edge research on new carbohydrate-based drugs, from their design via their synthesis to pre-clinical testing. She is developing strategies

for the chemical synthesis of important complex carbohydrate molecules that will find potential therapeutic applications as tumour vaccines and antibacterial agents. Her research will involve a computer-assisted molecular modelling facility, an organic synthetic facility and a biochemical testing facility.

BY LORI BONA HUNT

Residence Complex Opens

Continued from page 1

The University has made contingency plans to ensure that the 72 affected students have alternative accommodations for the interim period involved.

"We are planning for a contingency period of two to four weeks, depending on the unit," says Brenda Whiteside, associate vice-president (student affairs).

The alternative plans include the affected students residing temporarily at two nearby hotels at the Uni-

versity's expense. Residence life staff will be located at the hotels to provide assistance.

These students will not be charged residence fees until they move into their rooms, says Whiteside. They will also receive a reduced-price meal plan, secure storage for their personal belongings, free parking during the interim period and assistance moving into their townhouse when it is ready.

An additional 18 units in the

townhouse complex won't be ready until the end of September or early October.

"We are now grateful that we took the cautious measure of not assigning students to these units back in June," says Blair Capes, assistant director of Student Housing Services. "But we have a number of students who have indicated they want to move into these units when they're ready, so we're working to get them online as quickly as possible."



FOCUS ON ADMINISTRATIVE DEVELOPMENT

Chairs and directors from 16 departments and schools and other senior administrators attended the third offering of a program for administrative development June 12 and 13 on campus. The program is designed to create awareness of administrative challenges and opportunities faced by chairs and directors and to give participants a chance to share ideas and experiences. This year's program was organized by provost Alastair Summerlee and Prof. Donna Woolcott, assistant vice-president (academic), with the help of Woolcott's assistant, Melody Wren. As part of an ongoing training program for chairs and directors, a workshop on human rights and equity will be held Oct. 23 from 1 to 4 p.m. at the Arboretum.

PHOTO BY MARTIN SCHWALBE

New TSS Workshop on Learning Technologies Kicks Off Fall Offerings

TEACHING SUPPORT SERVICES (TSS) is offering a new workshop called "Learning Technologies 101" this semester to give both new and experienced faculty an opportunity to explore learning technologies.

The session will demonstrate the spectrum of technologies available on campus; introduce participants

to key supports, services and personnel that can help them get started; and address questions or concerns related to the use of learning technologies.

This workshop is intended to serve as the foundation for the full roster of TSS learning technologies workshops, which are organized in the following series: general learning

technologies, WebCT, instructional Web use, course Web development, media production, and teaching with PowerPoint. Twenty different workshops will be offered this semester for instructors at all levels of expertise.

The complete workshop schedule can be viewed on the TSS Web site at www.tss.uoguelph.ca.

Online registration is required for all workshops and will be available one month prior to each session's presentation date. For those without on-campus Web access, registration must be done by phone at Ext. 3571.

For more information about the workshops, call Mary Nairn at Ext. 3571.

raising for the 2001 United Way campus and Guelph campaigns."

The University community donated \$240,000 to the Guelph and Wellington United Way in 2000, and campus volunteers have set a fund-raising goal of \$245,300 for this year.

Oct. 1 is the official kick-off day, when the United Way committee will host coffee-break events across campus. Coffee and a snack will be available in the University Centre for a donation throughout the day. And every department on campus will be encouraged to hold its own coffee-break where United Way canvassers can distribute payroll deduction forms and share information about the 67 local programs that are supported by the United Way.

Reimer and co-chair Prof. Bev Kay, Land Resource Science, have been recruiting volunteers all summer for the annual charity drive. A volunteer barbecue Aug. 30 launched a training program for area co-ordinators. Canvasser training sessions are scheduled for Sept. 20 at noon in Animal Science and Nutrition 141, Sept. 25 at noon in the OAC boardroom and Sept. 26 at 1 p.m. in UC 442. If you'd like to volunteer as a United Way canvasser in your area, call Joanne Poluch at Ext. 6031.

The campus committee is also seeking donations of incentive prizes for the United Way campaign. If you have a talent for home baking, wine making or some other handicraft, e-mail a description of your donation to Reimer at kreimer@uoguelph.ca.

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Construction Activity to Continue

Continued from page 2

- Creation of a small isolation ward near the OVC Building for research.
- Planning for renovations to classroom space in the MacKinnon Building is under way, with Teaching Support Services reviewing the optimal layout. Construction will take place over the winter break or next spring to minimize disruption.
- U of G's primary kitchen, located in the basement of the University Centre, underwent a complete makeover this summer. David Boeckner, director of Hospitality Services, says much of the 30-year-old equipment in the kitchen was replaced.
- People returning to campus this fall will also notice a new food outlet in the Centre Six food court. A Saint

Cinnamon's will be located by the Yogen Frus outlet, complementing the bakery already at this site.

Although a City of Guelph project, College Avenue, which runs through the middle of campus, was substantially improved. The street now has a new roadbed, sewer and sidewalks, as well as a wider street area and bike lanes along both sides of the road.

In addition, new audible stoplights were installed at the intersection of College and Gordon and on Winegard Walk at College. These lights increase accessibility and safety for people who are visually impaired. The lights have a button that can be located by a tone constantly emitted by the unit. This button must be depressed for five seconds, then an acknowledgment

tone will sound, and the user must wait for either a chirping or cuckoo sound to indicate that the light is green and it is safe to cross.

Other road improvements include work to Powerhouse and McGilvray lanes and a repaving of Parking Lot 19. A planned crosswalk across South Ring Road at P31 will be installed at the end of September. This will enhance pedestrian safety at a busy pathway into the centre of campus. The crosswalk will have stoplights and traffic-calming features. All these projects are funded from parking revenues.

In addition, thanks to a significant increase in provincial funding targeted for facilities renewal projects (see story on page 2), the University undertook dozens of improvements to campus facilities.

These include removal of PCB-bearing transformers from the McLaughlin Library and the East Residences Tower; fire alarm upgrades in the family housing complex; replacement of cold-water showers with tepid-water showers in labs in the Animal Science and Nutrition Building; and repairs to the campus steam distribution system.

Sullivan notes that all this construction activity will be disruptive to campus life.

"We will do everything possible to minimize disruption," she says. "But we do need the support of the University community in living with this activity, which will result in new state-of-the-art classroom facilities and enhancement of our science facilities."

BY SUZANNE SOTO

Singers Invited to Perform in Toronto

Choir one of 13 to appear at choral conference

The U of G Chamber Singers have been selected to perform at Podium 2002, a conference of Canadian choral conductors in Toronto next May. The group will be one of 13 choirs to perform at the biannual event.

"It's a great honour," says conductor Marta McCarthy, who has led the singers for five years. "I went to the conference two years ago, and the standard of the groups performing was just fabulous. They are Canada's best choirs, and conductors from all over North America attend to hear what's happening in choral music."

She notes that although Guelph's music program is small, it has strong singing teachers. "It's part of the reason we were selected — because they train our singers so well."

McCarthy is already working on the choir's program for Podium 2002. "World Voices" is the conference theme, so the musical selections will be drawn from "many different languages and many different styles," she says.

The 24-member choir, which McCarthy hopes to tour in Europe in the future, is composed primarily of students, but faculty and staff are also welcome. Auditions are held in early September. The choir's first performance is slated for Nov. 8 at noon in MacKinnon 107 as part of the Thursday noon-hour concert series.

Additional Facilities Funding Welcome

Continued from page 2

mentation for an improved ramp was carried out quickly."

Other projects that are being supported by this latest round of facilities renewal funding are:

- \$3.13 million for mechanical system improvements, including re-

placement of aging and failing equipment in both the Central Plant and in various buildings, repairs to steam distribution systems, emergency utility repairs when systems fail throughout the year, and improving backflow

prevention and replacing leaking pipes.

- \$0.98 million for interior improvements such as classroom upgrades, replacement of worn carpeting and miscellaneous fire safety upgrades.
- \$0.61 million for electrical improvements such as replacing PCB-bearing transformers and improving exit signs, and for testing and repairing fire alarms.
- \$0.15 million for elevator improvements to replace obsolete elevator cylinders as part of a multi-year program.
- \$0.6 million in building envelope repairs such as roofing, masonry and repainting.

- \$1.05 million for site improvements such as repairing aging underground utilities, repairing and extending sidewalks, providing improved barrier-free accessibility and providing more bicycle racks across campus.

In addition, the University will spend \$0.113 million on road improvements funded by campus parking revenue.

"The additional funding from the provincial government is most welcome," said Nancy Sullivan, vice-president (finance and administration). "The University faces a backlog of facilities renewal worth an estimated \$200 million."

BY LORI BONA HUNT

BALLROOM DANCE CLASSES Fall 2001 Session

Commencing Sunday, September 9

- Modern Ballroom & Latin
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ANNOUNCEMENT

- Weekly Free Entrée Benefit
- Annual General Meeting

Effective from September 4, 2001 through May 24, 2002, University Club members will receive their first hot lunch entrée, sandwich or salad bar of each week free of charge. The value of the free entrées is approximately equal to membership dues.

New members are welcome. The free entrée program begins as soon as the membership card is issued. Application forms are available at the bar.

The annual general meeting will be held in the University Club on Tuesday, September 11, 2001 at 5:00 p.m. The agenda will include a review of the past year's operation, financial report, membership and election officers. All members are encouraged to attend.

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Seagull acoustic guitar, model M-6 gloss, mahogany and spruce, bought new in May, showroom condition, Ext. 8950 or 658-6795.

Queen-sized natural stained pine futon and futon cover, send e-mail to simamatt@uoguelph.ca.

Canon BJ 30 bubble jet printer, installation disks and manual; Canon BJ 10 bubble jet exportable printer; Emerson 20-inch colour TV; small TV stand; three cell phones; metal tool cabinet on wheels, Christi, Ext. 4146 or 821-1621.

Three-piece coffee and end tables; new TV stand; white five-drawer dresser; two bedside/end tables; beige velour love seat; Ab Rocker, still in box, Tracey, 821-6661.

Kenmore SuperCapacity washer, less than two years old; HEPA air filter system, like new, 821-1840.

Keys 1500 SES treadmill, excellent condition, 823-2833 or send e-mail to jtdman@uoguelph.ca.

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Four-bedroom townhouse, 1½ baths, laundry, parking, central air, new appliances, 20-minute ride to campus, \$1,500 a month plus utilities, non-smokers, no pets, Alex or Ian, 827-1644.

Furnished one-bedroom apartment, 10-minute walk to campus, on bus route, \$425 a month inclusive, one-year lease, send e-mail to jrvincent@uoguelph.ca.

Room in shared accommodation in quiet house, south-end location, bus stop at door, parking, laundry, non-smokers, no pets, \$425 a month inclusive, available immediately, Jen, leave message at 766-6046 or 767-6072.

Home to share in old University area, professional female non-smoker preferred, references required, \$800 plus utilities, 766-4334 or 416-271-3314.

Furnished two-bedroom holiday home in south of France, available weekly or monthly; furnished one-bedroom apartment in southwest Paris for short-term rental, walking distance to subway and shops, Nicole, 836-6745 or fnmoll@webtv.net.

Furnished room close to campus and Stone Road Mall, shared kitchen, laundry, cable, no parking, non-smokers, no pets, \$425 a month inclusive, Eloise, 827-9221.

Room in country home, on Fergus and U of G bus route, parking, shared kitchen, laundry, non-smokers, no pets, \$400 a month inclusive, 836-3499.

Room with ensuite private bath for mature female, shared kitchen, parking, laundry, five-minute drive to campus, non-smoker, no pets, \$450 a month inclusive, 823-2833 or send e-mail to jtdman@uoguelph.ca.

Four-bedroom older home suitable for small family, adjacent to University campus, fenced yard, appliances, yearly lease, \$1,500 a month plus utilities, available immediately, 767-5003 or redweb@uoguelph.ca.

Furnished basement room for mature male, private shower, microwave, parking, close to bus stop, non-smoker, no pets, \$325 a month inclusive, 822-3129.

Furnished two-bedroom condo, two baths, \$1,500 a month inclusive, available Oct. 1, Carol, 823-1857 or cmthompson@hotmail.com.

Room in Hartsland Plaza area, shared living room, kitchen, laun-

dry, parking, non-smoker, no pets, \$400 a month inclusive, send e-mail to gadamska@ovc.uoguelph.ca.

Furnished three-bedroom cottage in Hillsburgh on retreat property, \$875 a month plus utilities, available Nov. 1, 519-855-6755 or send e-mail to chicchan@sympatico.ca.

WANTED

Small corner office desk with three or four drawers, good-quality rowing machine, Norma, Ext. 3605.

Microfilm reader needed for research team for one year, Ken, Ext. 3246 or 6315 or kwgraham@uoguelph.ca.

Four-bedroom house or townhouse for sabbatical professor and family from January 2002 to December 2003, David, Ext. 2747.

Professional couple with dog seeking house or townhouse for Oct. 1, send e-mail to afraser@trentu.ca.

Quiet person to share townhouse, Nancy, 836-6701 evenings.

Four-bedroom home in Guelph from January to August 2002 in exchange for five-bedroom home in Alberta while husband completes degree at U of G, 403-556-2088 or bdowell@mountainview.ab.ca.

AVAILABLE

Experienced painter and house cleaner, Mona, 763-4599 evenings.

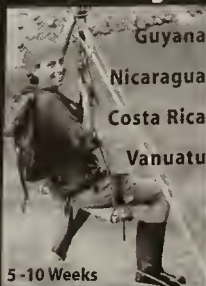
Before- and after-school care, Dublin/Northumberland Street area, non-smoker, attentive mother of two, 826-0337.

Two cats free to good home, moving to apartment, send e-mail to wfung@uoguelph.ca.

FOUND

Woman's opal ring in the gardens near the University Centre, call Ext. 6377 with description of ring.

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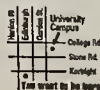
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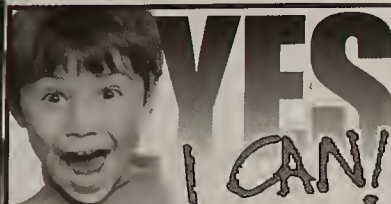


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EVENTS

ARBORETUM

The Arboretum Auxiliary holds its annual plant sale Sept. 8 from 9 a.m. to 3 p.m. at the R.J. Hilton Centre on College Avenue. Admission is free.

The Arboretum Auxiliary's Sunday afternoon walks continue Sept. 9 with "Field Insects" and Sept. 16 with "Trees and Tree Folklore." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person and is suggested.

Horticulturist Henry Kock leads a workshop on growing native plants from seeds Sept. 25 from 9 a.m. to 4 p.m. Cost is \$65. Registration and payment are required by Sept. 11. Call Ext. 4110.

Amateur astronomer John Daicopoulos leads a two-evening course on autumn stargazing Sept. 25 and 27 from 7 to 9 p.m. Cost is \$25. Registration and payment are required by Sept. 11.

Christopher Campbell, designer of the Arboretum's David G. Porter Memorial Japanese Garden, hosts a workshop on the Japanese garden Sept. 26 from 9 to 11:30 a.m. Cost is \$20. Registration and payment are required by Sept. 12.

Mary Ann Moore leads a workshop on "Your Own Tea House Practice" Sept. 26 from 1 to 4 p.m. Cost is \$15. Registration and payment are required by Sept. 12.

Archaeologist Larry Drew presents the hands-on workshop "From Artifacts to Archeology: Can You Dig It?" Oct. 6 from 1 to 4 p.m. Cost is \$18 for adults, \$9 for children (must

be accompanied by an adult) or \$40 for a family of four. Registration and payment are required by Sept. 21.

ART CENTRE

An exhibition of jazz photographs by Paul Hoeffler opens Sept. 6 at the Macdonald Stewart Art Centre. The photos document 50 years of the jazz scenes in Toronto and New York. Hoeffler will lead a walkabout tour of the exhibition Sept. 6 at 1:30 p.m. in collaboration with the Guelph Jazz Festival. The show continues until Nov. 4.

CONFERENCE

The Care-a-thon Animal Welfare Conference runs Sept. 29 from 9 a.m. to 5 p.m. at the OVC Lifetime Learning Centre. The student-led initiative will feature speakers from Canada and the United States discussing innovative ways to improve animal welfare. Cost is \$10, with all proceeds going to support an animal welfare project.

NOTICES

Animal-Care Services is seeking volunteers to walk dogs and socialize rabbits and rodents. For more information, visit the Web site www.uoguelph.ca/ACS. Paid dog-walking positions are also available. For an application and information sheet, stop by the Central Animal Facility on McGilvray Street.

All employees are reminded that the stickers on their ID cards became void Sept. 3. New validation stickers for 2001/2002 can be obtained from department secretaries or administrative assistants.

The Stress Management and High Performance Clinic will again hold classes on relaxation and stress management skills this semester. Sessions meet Tuesdays and Thursdays at 5:30 p.m., beginning Sept. 25. Cost is \$40 for U of G students, \$60 for UGSA members and \$120 for others. For more information, call Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

The Centre for Research in Earth and Space Technology is calling for proposals for its core research program. Deadline for proposals is Sept. 17. Application forms are available on the Web at www.Crestech.ca/ResearchWeb2001/main.htm.

Canada's Outdoor Farm Show runs Sept. 11 to 13 at U of G's Woodstock research station. For full details, visit the Web site www.outdoorfarm-show.com.

Animal-Care Services is hosting a United Way fund-raising barbecue, bake sale, garage sale and raffle Sept. 19 from 11:30 a.m. to 2 p.m. at the Central Animal Facility on McGilvray Street. Donations for the garage sale would be appreciated and should be dropped off at the facility during business hours by Sept. 14.

The Alberta Agricultural Research Institute is calling for proposals for the Farming for the Future Program. The research proposal form, instructions and guidelines can be found under "What's New" on the Web site www.aari.ab.ca. The deadline to submit an intent to apply is Sept. 14.

U of G's Christian Forum (faculty, staff and students on campus) is sponsoring a Christian education

program called "Alpha" this fall. The "Alpha" course begins Sept. 17 at 5:30 p.m. in UC 442 with the topic "Christianity: Boring, Untrue, Irrelevant?" Pizza will be provided. Call Ext. 8423 to register or for more information.

SEMINAR

The Department of Chemistry and Biochemistry presents Hansruedi Glatt of the German Institute of Human Nutrition discussing "Metabolic Formation, Distribution and Toxicological Effects of Reactive Sulfuric Acid Esters" Sept. 7 at 2:15 p.m. in MacNaughton 222.

TEACHING SUPPORT

Teaching Support Services launches its fall workshop series for campus instructors with "Learning Technologies 101" Sept. 13. Next up is "Introduction to WebCT 3.5" Sept. 18. Also slated for this month are "Teaching with PowerPoint: Strategies" Sept. 20, "HTML I: Creating Basic Course Web Pages" Sept. 24, "Effective Courseware Design and Delivery" Sept. 26 and "Online Assessment" Sept. 28. Detailed descriptions for all sessions are available on the TSS Web site at www.tss.uoguelph.ca. Online registration is required.

THEATRE

Senior drama students will showcase their work with Frosh Week one-act plays Sept. 6 to 8 at the Inner Stage. The students will present *The Look-out Trail* by Simon Mallett and *The Family* by Melissa Patterson. Performances are at 8 p.m. Tickets are \$4 and available at the door.

THESIS DEFENCES

The final examination of M.Sc. candidate Jennifer Simard, Zoology, is Sept. 10 at 2 p.m. in Axelrod 265A. The thesis is "Effects of Selective Logging on Terrestrial Small Mammals and Arthropods." The adviser is Prof. John Fryxell.

The final examination of Melissa Grey, an M.Sc. candidate in the Department of Zoology, is Sept. 14 at 2 p.m. in Axelrod 265A. The thesis is "Predator-Prey Relationships of Naticid Gastropods and Their Bivalve Prey." The adviser is Prof. Elizabeth Boulding.

COMMUNITY EVENTS

The Guelph Jazz Festival runs Sept. 5 to 9, featuring international artists in concert, as well as workshops, panel discussions, lectures and jazz on the streets and in coffee houses. For full details, visit the Web site www.uoguelph.ca/~jazzfest/festival/festival_welcome.html.

The Eden Mills Writers' Festival runs Sept. 9 from noon to 6 p.m., rain or shine. Writers scheduled to appear include Peter Carey, Stuart McLean, Pamela Wallin, David Adams Richards, Sandra Shamas, P.K. Page, Allan Fotheringham and Leon Rooke. Admission is \$8 for adults, \$5 for students and children and \$25 for families. For more information, call 826-0876 or visit the Web site www.sentex.net/~pqj/eden.

The fourth annual Taste of Guelph, a gourmet garden party in support of the Guelph hospitals, is Sept. 16. Tickets are \$100 and are available by calling 767-3424.

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THIS ISSUE

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- 9 **PROJECT** Serve takes students into the community.

Reaching Out in Sorrow

THE TRAGIC EVENTS in the United States last week have shocked our community and elicited feelings of profound sorrow and grief.

In the face of such horror, members of the University of Guelph community have rallied individually and collectively over the past week to reach out to friends and relatives and to each other. These efforts have included a dinner for U.S. students on Tuesday, a candlelight peace vigil on Wednesday, extended counselling services and support, a white-ribbon campaign and moments of silence dedicated to remembering those whose lives have been lost.

Throughout it all, we feel a heightened sense of appreciation for the value of human life and for the values that make this University strong — our sense of community, our sense of compassion and our sense of mutual respect.

Inside this issue of @Guelph, you will find several items that speak to the enduring values of our institution. They include articles written by Patrick Case, director of human rights and equity, and Prof. Maureen Mancuso, associate vice-president (academic).

May our respect for one another and our faith in the strength of the human spirit guide us all through this difficult time.

President Mordechai Rozanski



TOP STUDENTS HONOURED

Twelve of Canada's brightest students, the newest recipients of U of G's prestigious President's Scholarships, were honoured at a luncheon Sept. 4. In front, from left, are Melissa Cirinna, Lisa Werden, Morgan Whitfield, Allison Cotton, Laura Zadro and chancellor Lincoln Alexander. In the second row are president Mordechai Rozanski, AnneMarie Ssemenda, Martina Dobson, Susanne Egar, Caroline Tucker. In the back row are Aaron Offord, Emma Mason, Amy-Lee Kouwenberg and Prof. David Noakes, chair of the President's Scholarship Selection and Review Committee. For individual profiles of this year's President's Scholars, see pages 6 and 7.

PHOTO BY MARTIN SCHWALBE

Vice-Provosts Named for Guelph-Humber

Nightingale, Trick bring wealth of experience, knowledge to new positions

UOF G and Humber College have appointed two new vice-provosts to head academic and administrative endeavours at the new University of Guelph-Humber.

Prof. Michael Nightingale, currently U of G's assistant vice-president (academic), has been named vice-provost, academic. David Trick, currently assistant deputy minister for the Ministry of Training, Colleges and Universities, will serve as vice-provost, administration.

Both appointments were unanimously approved by a hiring committee comprising the academic vice-presidents and vice-presidents for finance and administration at both Guelph and Humber. The positions are three-year contracts that begin Oct. 1.

"The field of applicants for both positions was very strong," says Prof. Alastair Summerlee, U of G's provost and vice-president (academic). "I am extremely pleased that David and Michael have agreed to take on these new positions. They both have a wealth of experience and knowledge that will help ensure the success



David Trick



Prof. Michael Nightingale

of this collaborative venture."

Summerlee notes that Nightingale will bring "a sense of commitment and continuity to the Guelph-Humber project.

"He has experience both as a dean and as an academic leader and played an integral role in bringing together Guelph's colleges of Family and Consumer Studies (FACS) and Social Sciences to create the College of Social and Applied Human Sciences (CSAHS). In addition, he has

been working for the past 12 months to establish the academic base for the University of Guelph-Humber programs."

President Mordechai Rozanski and Humber president Robert Gordon say they are "absolutely delighted" that Trick has agreed to join Guelph-Humber because he brings invaluable administrative expertise and a profound understanding of colleges and universities.

The new venture between U of G

and Humber College will allow students to earn a fully integrated university honours degree and a college diploma in only four years of study. The University of Guelph-Humber will initially offer three programs — business, computing and media studies — beginning in fall 2002. The facility is to be located in Toronto at Humber's north campus, where a new building will open in fall 2003 to eventually accommodate 2,000 students. Additional program offerings will be added in 2003.

"This project is unique both in its design, because it is truly integrated, and because of the substantial work on curriculum that led to it," says Richard Hook, Humber's vice-president, academic. "Both institutions' faculty have dedicated some two years to curriculum development and have created university programs that will take 2,000 students by 2007. We are proud that we have brought together the strengths of two different institutions and cultures and integrated them. We are also fortunate to have people who had the experience and credibility to

Continued on page 11

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VIGIL HONOURS VICTIMS

More than 700 U of G students, staff and faculty gathered on Branon Plaza Sept. 12 for an evening vigil to honour the victims of the terrorist attack in the United States. Holding candles, from left, are students Laura Hof, Amy Proulx and Helen Hargreaves.

PHOTO BY DAVE CARTER, GUELPH MERCURY

The Only Way to Fight Terrorism Is to Reject and Refuse Its Message

IN OUR SMALL COMMUNITY at the University of Guelph, we watched in horror as the events of Sept. 11 rolled across our television screens. We reacted as compassionate people. Some of us cried, some of us screamed, some of us stood in front of the news stunned. But none of us could turn away unmoved as terror rained down from the skies in the United States. We feel compassion for the thousands of victims of the attacks, their families and friends.

As we reflect on the day's events, we begin to feel fear for the fragile and battered innocence of our lives.

Terrorism is designed to make the world turn on hatred. The only way to fight it is to reject and refuse its message. Where terrorism says there is no way out but through hate, we must turn our backs and say there is no way out but through humanity and community.

Our first instinct is to turn inward, to try to protect

our battered world from collapsing around us. It is natural to turn to our friends and families at this time — to those we know and find comfort with. But the real test of our humanity is to respect and support all members of our community, not just those we know. If we lash out, we are sinking into the terrorist's world.

The world is full of acts of compassion and understanding in the face of unspeakable horror. Our humanity doesn't disappear in the face of terror; it is simply tested harder.

What this means for us is simple: we must not lash out in ignorance or anger at anyone. We do not know who carried out these acts of terror, and we must not draw conclusions nor accuse. We must not act with hatred toward any individual or group of people. We must act with compassion and humanity.

Patrick Case, Director, Human Rights and Equity

Drama Prof Wins Book Award

THE ASSOCIATION for Canadian Theatre Research has awarded Prof. Ric Knowles, Literatures and Performance Studies in English, the Ann Saddlemyer Prize for his book on contemporary Canadian theatre. The book is titled *The Theatre of Form and the Production of Meaning: Contemporary Canadian Dramaturgies*.

"It's great to be recognized by your peers and colleagues," says Knowles. "Guelph has the only graduate program specializing in Can-

adian drama anywhere, so this is good recognition for the school as well."

The book looks at the relationship between theatrical structures and the politics of dramatic form, how it shapes individual consciousness and social formations. It covers dozens of plays in Canada, most produced since 1967.

Knowles has just finished another book, *Reading the Material Theatre*, due to be published by Cambridge University Press early next year. He

is also co-editing an anthology of First Nations drama, called *Staging Coyote's Dream*, with First Nations playwright and actor Monique Mojica of Toronto.

The Ann Saddlemyer Prize is given every two years to the outstanding book on Canadian drama or theatre published in English or French. Saddlemyer was the first female master at the University of Toronto's Massey College and a major figure in Canadian and Irish drama studies.

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Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
l.graham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Acting Director Chuck Cunningham
ccunning@registrar.uoguelph.ca

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NORRIS NAMED ASSOCIATE DEAN

Prof. Joan Norris, Family Relations and Applied Nutrition, a faculty member at Guelph since 1981, has been appointed associate dean of Graduate Studies for a three-year term that began Sept. 1.

ONTARIO UNIVERSITIES' FAIR SEPT. 21 TO 23

The annual Ontario Universities' Fair, slated for Sept. 21 to 23 at the Metro Toronto Convention Centre, is expected to attract more than 55,000 visitors again this year. U of G and University of Guelph-Humber recruitment staff, along with faculty and staff from across campus, will represent Guelph at the three-day event, which gives high school students, parents and teachers an opportunity to learn more about Ontario's 19 universities.

STUDENTS ORGANIZE ANIMAL WELFARE CONFERENCE

The Care-a-thon Animal Welfare Conference runs Sept. 29 from 9 a.m. to 5 p.m. at the OVC Lifetime Learning Centre. Designed to promote awareness of current research and new methods of improving animal welfare, the student-led initiative will feature speakers from Canada and the United States, including Michael Appleby of the U.S. Humane Society and Gilly Griffin of the Canadian Council on Animal Care. Audience participants can collect pledges or give a minimum \$10 donation. For more information, call 827-1851 or visit the Web site www.ovc.uoguelph.ca/Associations/care-a-thon/care1.html.

HABA HOSTS VISITORS

HABA is hosting two visiting professors from Australia for the fall semester. Eleanore Fitz of La Trobe University, Bundoora, is a respected educator, trainer and manager whose areas of interest include commercial cookery and catering management. Judy Lundy, a training and consultant director with J/L Training and Education Pty Ltd. in Canberra, has worked extensively in the hotel industry and has been a member of the executive management team of the Australian International Hotel School.

SURVEYS TO COLLECT COMMUTING INFORMATION

U of G is collaborating with the Kitchener-Guelph Traffic Reduction Initiative to see what steps can be taken to alleviate traffic flow to and from the University. The first phase of this venture will involve a survey of U of G employees who travel to work from another city. The surveys will be distributed Sept. 24. If the project is successful, it will be broadened to include all employees at the University. The project is a partnership of the Public Interest Research Groups of Waterloo and Guelph and university-based environmental and social justice groups in both cities.

**WELCOME, NEW STUDENTS**

These U of G students were among the newcomers treated to a grand welcome Sept. 4 in the Gryphon Dome. The students were formally welcomed by president Mordechai Rozanski and the University community at an academic assembly that featured all the pomp and circumstance of a convocation ceremony.

PHOTO BY MARTIN SCHWALBE

Student Services Restructured to Meet Current, Future Needs

Changes prompted in part by expected rise in student enrolment

IN AN EFFORT to better serve the needs of new and returning students at U of G this fall, the south section of the University Centre's third floor has been rearranged, bringing several student services closer together.

The move is the product of a complete restructuring of Student Affairs that took place this spring, says Brenda Whiteside, associate vice-president (student affairs), who spearheaded the restructuring efforts. The restructuring is the result of two years of work initiated in part by reforms to Ontario's high school curriculum and the overall rise in student enrolment expected in 2003, she says.

These factors will increase U of G's total undergraduate and graduate enrolment, will bring students to campus at a younger age, will probably result in a more diverse student body, and will bring in students who need and demand the latest in information technology.

"At the same time, a couple of directors in Student Affairs were retiring, creating some vacancies, so we had a unique opportunity to reconsider the unit's structure," Whiteside says.

She notes that extensive consultations were held with all staff affected by a restructuring. The consultations were based on several established principles, including:

- the university's focus on learner-centredness and its components: self-reliance, a link between research and teaching, skills development and experiential learning;
- the fact that Student Affairs units work with academic departments to support the academic mission of the institution; and
- the need to recognize student transitions and student develop-

ment. The expectations of an entering student are much different from those of a senior student, a student preparing to graduate or a graduate student, says Whiteside, and the University needs to ensure that it offers appropriate programs that support the goals of high student retention and satisfaction.

Following the consultation process, two new units were created — the Counselling and Student Development Centre (CSDC) and Student Life and Career Services. Directors have been named for each.

Headed by Bruno Mancini, the CSDC consists of the Counselling Unit/Student-to-Student Support Services, the Multifaith Resource Team and the Centre for Students with Disabilities (CSD).

"The focus will be for all of the units to work together to support students, concentrating on equity, student independence and student success," Mancini says.

The CSD and the Counselling Unit are already closely aligned, with many students accessing both. U of G is well-known for its support of students with disabilities, says Whiteside, and the creation of the new centre will ensure this continues.

As part of this restructuring, the Campus Ministry was renamed the

Multifaith Resource Team and has been relocated to Rathby House.

Student Life and Career Services, headed by Roberta Mason, brings together the Office of First-Year Studies (OFYS), Leadership, Service and Involvement Programs, and Career Services.

"This unit will ensure that particular attention is paid to the two significant points in a student's academic career — the transition to and from university," says Mason. "It will also focus specifically on skills development."

Whiteside adds that the OFYS was an extremely innovative program when it was created in 1994.

"We hope this new centre will signal to the external community that we place a high value both on providing support to entering students as they make the transition to university, and on preparing graduates both academically and personally for society-at-large," she says.

This unit will also provide extensive career development and employment support services, with professional staff continuing to collaborate with faculty, Teaching Support Services, employers, alumni and other partners in establishing meaningful co-curricular learning initiatives for students.

BY SUZANNE SOTO

PEOPLE**KAY NAMED FELLOW**

Prof. Bev Kay, Land Resource Science, was elected a Fellow of the Canadian Society of Soil Science for his outstanding contributions to the field of soil science at the society's annual meeting in Guelph in August. A faculty member at Guelph since 1960, Kay is recognized internationally for his research related to characterizing the structure of soil and to elucidating the roles that soil structure plays in the growth of plants and in the activity of soil micro-organisms. He was also cited by the society for his contributions to graduate and undergraduate education and to national and international professional organizations.

SIGMA XI PRESENTS AWARDS

The U of G chapter of Sigma Xi presented its annual awards Sept. 13. The award for excellence in support of research went to Patsy Huether of the Department of Biomedical Sciences. The D.G. Ingram Award for best PhD thesis was presented to Jolynne Drummelsmith of the Department of Microbiology. The H.S. Armstrong Award for best M.Sc. thesis went to Natasha Frick of the Department of Zoology.

BAKER TO SERVE SECOND YEAR ON CIHR COMMITTEE

Prof. Mark Baker, Pathobiology and Molecular Biology and Genetics, has been appointed for a second year to serve on the Canadian Institutes of Health Research New Investigators "C" Award Committee.

PROF APPOINTED BY CFI

Prof. Jack Trevors, Environmental Biology, has been appointed to the Canada Foundation for Innovation expert environmental committee for the upcoming autumn review of submissions.

PHD STUDENT HONOURED

Justine Vanden Heuvel, a PhD student in viticulture in the Department of Plant Agriculture, is the first Canadian student to win the American Wine Society Educational Foundation Scholarship. She also won the best paper award in viticulture from the American Society of Enology and Viticulture.

WRITER SHORT-LISTED

Sandy Sabatini, a Guelph MA graduate and sessional instructor in the School of Literatures and Performance Studies in English, has been short-listed for the second annual Upper Canada Brewery Writers' Craft Award for her short-story collection, *The One With the News*. The award is given to the best collection of short stories written by an Ontario author in the past year.

FINE ART STUDENT RECEIVES NATIONAL SCHOLARSHIP

Kelly Jazvac, a second-year student in studio art, has won the George Tanaka Memorial Scholarship, which is administered by the Association of Universities and Colleges in Canada. Only one of the \$2,000 scholarships is awarded each year.

IN MEMORIAM

Canada's pre-eminent fisheries biologist, William Ricker, who received an honorary D.Sc. from U of G in 1996, died Sept. 9 in Nanaimo, B.C., at the age of 93. Renowned for his contributions to entomology, fisheries biology,

scientific editing and resource management, he was an honorary research associate of Fisheries and Oceans Canada at the Pacific Biological Station in Nanaimo at the time of his death. He was also an Officer of the Order of Canada.

VALUES, CHANGE AND A STRONG FOUNDATION

"To believe in a university is to believe that ignorance is never preferable to knowledge"

BY MAUREEN MANCUSO

IN 1996, JOHN TAIT, a senior adviser to the Privy Council Office and Chair of the Task Force on Public Service Values and Ethics, published *A Strong Foundation*, his task force's final report. Recently rereleased after Tait's death, this report has become recognized as an uncommonly readable and insightful piece of bureaucratic introspection. Rather than simply listing off a prescriptive set of values for the civil service, Tait recognized that to improve the ethical environment of an institution, one must understand it from the ground up: the pressures it faces; its history, traditions and future prospects; its self-image and public face; and especially the attitudes, fears, concerns and goals of the people who make up the institution.

Tait also recognized that the civil service was in the midst of a great sea change, as the very notion of what the public sector should do (and how or even why it should do it) was being challenged by modernization and broad philosophical shifts. The "New Public Management" paradigm, in which the public sector is re-imagined as little different from the private sector (without, perhaps, the expectation of profit), was winning converts among politicians, who then proceeded to mandate significant public-sector restructuring and realignment. In such an environment, Tait realized, it was difficult for those who work in the civil service to understand their core goals, values and missions. A kind of institution-level existential angst had affected many units, in which the key question had become not "How can we do a better job?" but rather "What are we doing here anyway?"

Tait's response was to lay out — and in a sense rediscover — the underlying ideals that were still guiding the notion of public service, whether under new or old public management: the "Strong Foundation" of his title. This was not a prescription for stasis. Tait recognized that the civil service would continue to evolve in uncertain ways, but that this foundation would help ensure that guiding values were preserved, across restructuring, staff renewal and attempts to reinvent government.

Here at the University, we are in the midst of a similarly sweeping sea change, as we move from a decade of scarcity to a decade of unprecedented growth. Technological advances, demographic changes, globalization, growing corporatism and other social pressures are assailing the very notion of what a university is and how it should function. Even physically, with all the construction under way, the University is undergoing a sweeping makeover. We are in the midst of an accelerated evolutionary process. How can we, as members of the university and academic communities, be sure we are evolving into something we still recognize?

At about the same time that Tait began to develop his foundation, U of G began to set down some of its core commitments and ideals. The University's strategic directions — learner-centredness, research-intensiveness, collaboration, internationalism and lifelong learning — have become visible and important touchstones for all University activity. Our active and ongoing planning process — as manifest in various committees and working groups — is at its heart a means of responding to, and ideally anticipating, the challenges of a changing world while still remaining true to our basic mission.

I can't possibly do justice in this space to the full scope of issues and goals that inform this process. But I would like to ponder — and perhaps provoke some discussion about — the very low-level core values I think are essential to the very notion of a university, and which any future vision of our University must continue to hold as ideals.

The first is rationality. Everything we do here — teaching, learning, researching — is about using the powers of reason, analysis and critical inquiry to expand knowledge. The very idea of an institution devoted to training minds and fostering new discoveries is a monument to our belief in the ideal of rationality. No matter how many try to characterize a university education as a "product" marketed to student "consumers," the true output of a university remains that ultimate intangible, knowledge. Degrees open doors, and better degrees open more desir-

able doors, but what a student ultimately learns here is how to think, why it's important to think and the value of thinking rationally throughout life. Research can lead to spinoffs, which can give rise to profitable businesses, but ultimately, the driving factor behind our dedication to research is sheer love of the process of using the human mind to understand more of how the world around us works — what Nobel laureate physicist Richard Feynman called "the joy of finding things out."

By rationality, I don't mean simply scientific positivism, although the skepticism and reproducibility required by the scientific method are quintessential illustrations of a process ruled by respect for reason. Part of the reason why absurdist art can be so compelling, why existentialism can be so unsettling, why emotional response can be so, well, irrational, is that they present challenges to the assumed dominance of reason. Sometimes the most engaging puzzle is the one that may not have a solution.

Another core value is what I'll call "purposefulness," by which I mean the University is fundamentally engaged in something worthwhile and that makes the world a better place. Each new fact or artifact discovered, each new hypothesis proven or disproven, each new mind inspired with new understanding, each represents a palpable improvement in the state of the universe. Knowledge can be dangerous, and not all knowledge is beneficial. To some, the fact that each year we discover more new ways to destroy life on Earth undercuts the very notion of real "progress." More knowledge doesn't automatically mean less human suffering or that humanity can even hope to approach perfectibility. But to believe in a university is to believe that ignorance is never preferable to knowledge and that the drive to reduce ignorance is worth the establishment of large, complex, sometimes fractious and often chaotic institutions where knowledge-seeking can take place without all the constraints and obstacles that impede it in the rest of the world.

The third and perhaps most important value is open-mindedness. If you are to reason purposefully, you must be open to all the possibilities: that your initial suspicions were wrong, that the historical authorities you trusted were incomplete or misinformed, that the contradictions you observe are really evidence of a more fundamental coherence, that there may not be an answer to your question (often the sign of a good question). Open-mindedness also means tolerance for opinions you don't agree with and respect for those who hold them. After all, they might be right, because ultimately the open mind can never be complacently sure of its own infallibility. Open-mindedness means acceptance of the virtually infinite diversity of human beliefs, inclinations, preferences, superstitions, traditions and cultures. From each, there may be something to learn. How can you know if you reject them *a priori*?

Open-mindedness is by no means just another name for cultural relativism. A completely open mind can consistently believe there are absolute rights and wrongs, about which all open and fully informed minds must necessarily reach agreement. What an open-minded absolutist cannot believe is that people who are "wrong" are inherently wrong — or evil or anathema or unworthy of human dignity and respect — rather than just incorrect or misinformed. Apply some purposeful reason, and perhaps you can convince someone of your position. It is not the notion of right and wrong but the transference of right and wrong from an idea to a person — or group of persons — that is closed-minded.

Open-mindedness means never treating some group as fungible, interchangeable, anonymous stereotypes and substituting perceived group traits for individual characteristics. Of course, as a political scientist, much of my research involves finding ways to aggregate individuals that expose common patterns. Trying to reason about the behaviour of millions of individuals is intractable. Reduce those millions to a handful of groups with similar characteristics, and analysis is made possible. But my conclusions about groups never purport to pre-judge any individual. Statistical evidence about decaying political awareness among those under 25 does not support the

closed-minded generalization that "young people don't care anymore."

Of these three values, it is probably open-mindedness that requires the most vigilance to protect. This is probably because in the university environment, it involves a good deal of effort to be irrational and purposeless (with the possible exception of some committees), but closed-mindedness is usually the easier choice. Human nature — at least among the humans that are attracted to educational institutions — is to be inquisitive and knowledge seeking, to be confident of one's intentions and, unfortunately, to take shortcuts when confronting new ideas, situations or people. Preconceptions, tribal thinking and fear of the unfamiliar are instinctive parts of the human cognitive process, and it takes an effort of rationality to sidestep them and keep an open mind. This is assuming the mind is open enough to recognize when it starts to constrict.

Progress in fostering open-mindedness is being made at Guelph, most notably as we develop a revised human rights policy. But in just the last year, we have also had some disturbing reminders of closed-minded intolerance here on campus. These include sexist graffiti in the Thornbrough Building, threatening homophobic phone calls to individual students and organizations, a swastika painted on the president's garage, and assorted episodes of race- and ethnicity-related harassment. Granted, we cannot assume the perpetrators were actually members of the University community. But even the possibility of blaming "outsiders" shouldn't comfort an institution devoted to rationality and can in no way diminish our responsibility to resist, and counter, such manifestations of ignorance.

Coping with a changing world is never easy, especially when the ultimate direction and implications of change aren't readily apparent. We may not always be sure, as a university, precisely where we'll end up, but by reaffirming our core values — a process that must be continual and integrated into all our activity — we stand a better chance of ending up as the type of institution we wish to be. So long as we understand and articulate our core mission and ideals — our own "Strong Foundation" — we should be able to adapt to circumstances without losing our way.

Postscript:

Shortly after I wrote the above words, I saw what everyone saw on the morning of Sept. 11. In the recent aftermath, as horror and shock give way to grief and outrage, it seems almost ludicrous to argue for rationality, purposefulness and open-mindedness in such a clearly insane world. But without in any way diminishing the intensity of the tragedies in New York, Washington and Pennsylvania, we must acknowledge that the world has seemed insane many times before, and we have somehow found a way to make sense of it again.

I write this postscript, and you read this article, in a world that still seems skewed, off-balance, unreal or perhaps hyper-real. But it is already clear that the events of that morning are yet another tragic illustration of what happens when closed-mindedness is not only taught but cherished; when innocent individuals are reduced to mere stand-ins for some political, religious, ethnic or economic abstraction; when a mind decides that the only solution to a grievance is to kill those who will not agree with it. And I must hope that our response will not be to abandon our principles, to retreat into the instinctive and cathartic comfort of indiscriminate rage, and thus in a sense to become that which so horrified us. The open mind can blame an individual or an organization — perhaps even a national government — made up of individuals when there is evidence, but it cannot rationally hold an entire culture or citizenry responsible for the acts of individuals. Blaming people for what they represent rather than what they actually do is the very fallacy that underlies terrorism. Our fundamental values are at their most precious in times of crisis, when we most need them to guide us. Let us look to our "Strong Foundation" and try to find in it some measure of comfort and reassurance.

Prof. Maureen Mancuso is associate vice-president (academic).

OH, BEE-HAVE!

It's those nasty wasps, not bees, that have been bugging you this summer, says U of G beekeeper

BY LORI BONA HUNT

PAUL KELLY would like to get one thing straight. Those pesky yellow and black flying creatures that seem to be everywhere this year — especially buzzing around your lunch or coffee when you sit outside — are *not* bees.

They are yellow jacket wasps, and they thrived during this hot, dry summer. The heat meant that fewer wasps had to stay home and keep the nests warm and more could go out collecting food, boosting the birth rate. Kelly says wasps can be nasty, especially when they're bored and looking to steal some sugar and protein from humans. Shoo them away and you're likely to get stung. "You're making them mad and giving them a target to go towards," he says.

Bees, on the other hand, would never do such a thing. They are kind and shy and tend to stay away from humans, he insists.

If Kelly sounds a bit like an overprotective parent, it's understandable. As the University's official beekeeper, he considers sticking up for his charges — all 12 million of them — part of the job.

"Don't go blaming my bees — it's those wasps that are creating the problem," he says while using his bare hands to take apart one of the several dozen beehives that are carefully arranged on the lawn behind Townsend House. "Bees are misunderstood. They have a bad reputation they don't deserve. They really are very gentle and nice to work with. It's a symbiotic relationship — you help them out and they help you out."

He should know. Kelly has let bees crawl all over his face and form a "bee beard" without suffering a single sting, and he reaches into hives crawling with thousands of bees on a daily basis. And while he *does* get stung quite often, he claims to be so used to it that it doesn't dim his admiration or enthusiasm for the insects. Bees are amazing creatures and vital to human survival, he says. And he just can't get enough of them.

As U of G's beekeeper, Kelly is in charge of some 200 hives in six locations in Ontario, including some that are secluded on an island on Lake Simcoe, where the bees are under quarantine to see if they can stop the spread of a deadly mite. About 60,000 bees live and work in each U of G hive, which adds up to about 12 million bees — give or take a few. And it's Kelly's job to keep them healthy and happy.

"Bees are truly domesticated now, and there are enough diseases around that if we weren't looking after them, they would die. It can be difficult, especially because so much of our research is on bee diseases. Researchers are always trying to make the bees sick, and I'm trying to keep them alive."

And he seems to revel in the job. Armed with only a device that puffs out smoke, Kelly reaches into one hive and gently catches a bee by its wings. He holds it up for careful examination. "Look, see those yellow dots on its legs? That's how they



collect pollen. We call those pollen baskets."

He releases a few more clouds of smoke over the hive to calm the bees, who instinctively start feeding on honey. While the bees are distracted, Kelly takes apart the hive, explaining some of its features: where the bees make and store honey, how they create a queen and what they do to prepare for and feed their developing young.

"There's a bee about to be born," he says, pointing to a waxy hole from which the tips of a bee's antennae are just starting to emerge.

He pulls out another comb and encourages this apprehensive writer to ignore dozens of buzzing bees and dip a finger in to get a taste of fresh honey. Delicious.

This honey, which is sold to wholesalers, has helped finance U of G's beekeeping program throughout much of its 110-year history. Originally part of the Ontario Agricultural College, the program now includes graduate and undergraduate courses

and research through the Department of Environmental Biology, diploma and distance education programs, classes for hobbyists, and countless educational offerings for school and community groups. Not to mention all the bee enthusiasts who just stop by Townsend House for advice and chitchat. There has been a beekeeper there to answer questions for the past 60 to 70 years.

"People seem to hold this job until they die," Kelly says with a laugh, adding that the previous beekeeper had the position for 35 years.

A graduate of OAC, Kelly became interested in bees when another student told him what it was like to work with the insects. "After that, I just couldn't stop talking about bees." He took a year off school to work with beekeepers in Alberta, then spent subsequent summers with beekeepers in British Columbia, Nova Scotia and New Zealand. "I wanted to see if it was what I wanted to do." He returned to U of G, finished his degree and was hired in 1987.

"Most days, I think it's the best job on campus," he says. "If things are ever not going well at work, I just go outside and work with the bees and forget about any other problems."

Just how often does his job require him to do that bee beard trick? Kelly sheepishly says that it's really little more than a way for beekeepers to show off and prove that bees are harmless. "You pick up the queen and put her in a small cage and tie her to your neck. Then you shake out the other bees and they all run up your neck to join her."

Yes, it's clear that Kelly could talk endlessly about bees, but as interesting and important as the "educational stuff" is, you get the feeling there has to be more to tell. After all, he works with insects that fly, sting and swarm, so you just know he's sitting on a few good stories. After some coaxing, he tells this one. About 10 years ago, he was transporting some bees to Kirkland Lake, a 12-hour drive from Guelph. Bees must be moved when it's dark because they swarm towards light, so Kelly was rushing to make the trip before the cover of night lifted.

"I literally had no time to waste, and I guess I was speeding because pretty soon I see this set of police lights flashing behind me. Without thinking, I jump out of the car and shout to the officer: 'Don't shine your light on my load!' Of course, she immediately points her flashlight at the back of my truck, and the bees just swarm out of the hive and cover her arms and face."

Is that what he meant by having a symbiotic relationship with his buzzing friends? Well, Kelly admits that theory didn't quite hold this time. "After I got the officer all settled down and all the bees back in the hive — and she didn't get a single sting — she wrote me up a speeding ticket."

PHOTO BY MARTIN SCHWALBE

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2001 PRESIDENT

Twelve of Canada's brightest young scholars bring variety



Melissa Cirinna

Melissa Cirinna's love of animals — particularly any that might be sick or abandoned — began at an early age. "I was born into a house with two cats, a bird and a dog," she says. That number has expanded in the years since, with the family now owning two dogs, four cats and four hedgehogs.

It was this exposure, as well as her volunteer work with the Belleville Animal Hospital — where she looked after animals' food, water, grooming, medicines and surgery preparation — that made Cirinna realize she wanted to be a veterinarian.

"I would love to spend my life alleviating the suffering of animals," she says. "My goal at U of G is to complete the first two years of a bachelor of science degree and then apply to the Ontario Veterinary College."

Cirinna's other passions are academics and music. The winner of several scholastic awards at East Northumberland Secondary School in Brighton, she is particularly proud of her history and literature medals in the Academic Heptathlon, a gruelling contest in math, history, literature, economics, art and science.

In addition to playing and teaching piano, she plays the clarinet and was a section leader in her school's concert band. She also took part in drama and musical productions, including *Evita* and *You're a Good Man, Charlie Brown*.

In the community, Cirinna volunteered her time to children with attention-deficit disorder and the local Students Supporting Seniors program.



Allison Cotton

Allison Cotton believes individuals should always do what they think is right. For her, that means a willingness to give of her time to worthy causes and to help the less fortunate whenever she is called on to do so.

At St. Pius X High School in Nepean, Cotton was known for her involvement in the school and the community. She was a peer helper for four years, helping new students adjust to high school. She was also a member of student council, co-chair of a graduation committee and a leader of Students Together Against Narcotics.

In the community, Cotton volunteered with Ottawa's Adult Training Centre, which promotes the integration of mentally and physically challenged young adults into the school's social milieu, and with Girl Guides of Canada, representing the organization at a National Jamboree in Denmark and the Canadian Mosaic in the Yukon.

At Guelph, Cotton is enrolled in molecular biology and genetics, with the eventual goal of doing genetics research.

"I believe genetics offers us the best chance to improve the lives of the sick and the suffering, and to develop better animals and food," she says.

She acknowledges that many people are frightened by this type of scientific inquiry, but adds that the privilege of doing genetics research should come with responsibilities.

"Scientists working in the field should not do so just to make money or have a monopoly on the products that result from it. The ultimate goal of genetics research should be to help people."



Martina Dobson

Martina Dobson chose U of G because her initial impression of the University was that it really cared for and catered to its students. Since arriving on campus — and in Guelph itself — that first impression has been more than confirmed, she says.

"Everything here is convenient. For example, there are Safewalk emergency pulls everywhere, and our meal cards are accepted not only on campus but also in the larger community. I really get the sense that students are taken into account and given more respect than they would be in a larger city."

Enrolled in microbiology, Dobson says it was a different story when it came to choosing a major, mainly because she is equally interested in the arts and the sciences.

"I like all of the sciences — physics, chemistry — but I also love music, playing the saxophone and listening to jazz."

At Newmarket High School, Dobson was a member of the school band, performing written and improvised solos from Grades 9 to OAC. She also played with the Newmarket Citizens' Band. For a high school class project, she designed a professional children's game out of circuits and a behavioural stimulation device based on observing behaviour of primates at the zoo.

Although not entirely sure yet where her microbiology studies will take her, Dobson says she'd like to continue studying after she earns her B.Sc. "I enjoy learning so much. I plan on attending university for many years."



Susanne Eggar

Both Rice and Columbia universities in the United States came calling, but Susanne Eggar, a gifted athlete with a passion for competitive running, set her sights on the University of Guelph.

"I liked the coach here, and the track and field team was really friendly and welcoming. I also liked the biomedical program the University offers," Eggar says.

But wasn't it difficult turning down two prestigious U.S. schools? Does she have any regrets? "Absolutely not! I am totally at home here."

Eggar specializes in cross-country racing and the 1,500- and 3,000-metre events. Her accomplishments include placing in the Top 10 in Canada in track and cross-country running four times and winning many regional races, including the Ottawa Board Senior Women's Cross-Country Championship and the Eastern Regional Track and Field Championships.

Academically, Eggar maintained a 90+ average each year at Hillcrest High School in Ottawa while enrolled in the stringent bilingual program. Her awards include a Bilingual Proficiency Award and a Beaver Foods Citizenship Award in recognition of hard work, perseverance and consideration towards her fellow students.

At U of G, Eggar hopes to combine her love of sport with academics as she pursues a degree in biomedical sciences. "I am intrigued by the concept of human potential, and I want to help people experience and enjoy all types of physical activity," she says. "I would like to become a doctor of sports medicine and one day help Canadian athletes compete internationally."



Amy-Lee Kouwenberg

Pondering university studies while attending Pugwash District High School in Pugwash, N.S., Amy-Lee Kouwenberg decided she wanted to attend a university that would allow her to "experience big-city life. For me, that was Guelph!"

After growing up on a farm near a village with only 800 inhabitants, she has found being in the southern Ontario metropolis of Guelph "a big shock, a little overwhelming."

It's a bit noisy, she adds, and at night, she can't see the stars in the sky because of all the light around. But she does like the University. "There is a strong Aggie spirit here, which makes me feel very comfortable. I get along best with people from farms or farm backgrounds."

Kouwenberg's family owns a large hog farm and also keeps cattle and chickens. Being in that environment since birth — her parents kept a playpen in the barn for their children to play in while they did their farm chores — she loves the lifestyle. "My greatest influence has been growing up on a farm, rather than any of my accomplishments."

These accomplishments have included being a Canadian delegate at the Future World Leaders Summit in Washington, D.C., being the top student in her class and earning many scholastic awards, including Lieutenant-Governor's and Queen Elizabeth II medals, a U of T National Book Award and a national Millennium Scholarship.

Enrolled in Guelph's B.Sc. program in agriculture, Kouwenberg hopes to eventually work in animal research. "Animals are actually very smart. I would love to work with them, observing what they do and why."



Emma Mason

One of Emma Mason's passions is wilderness and outdoors.

"In Grade 9, I was introduced me to the adventure trips," she recalls. "I white-water canoed on

Temagami, canoed and portaged through Algonquin for 36 days along the isolated coast of Labrador, and

"These trips are very physically and mentally demanding. They have taught me many things about myself and inspired me to strive for excellence in other areas."

At Kingston Collegiate and Vocational Institute, she has been a public-speaking efforts as the school's head girl and student trustee for the Limestone District School Board. She organized a letter-writing campaign in which students wrote to the provincial government about extracurricular activities in their schools.

Mason has also organized fund-raising events for a youth shelter, her school's senior girls' soccer team and Kingston children's organization. She has been a volunteer instructor with the YMCA and is a violinist in the Orchestra.

Enrolled in the international development program, she wants to learn more about the world and its impact on the surrounding environment.



Aaron Offord

Asense of honesty, a commitment to responsibility and a desire to be a team player are all characteristics that can be used to describe Aaron Offord, a member of the Lourdes Catholic High School Youth Group, which provides money and goods and toys for children in developing nations.

In high school, he was a peer tutor and volunteered on the minor basketball league. An avid runner, he also played basketball and volleyball.

Offord's athletic excellence earned him several awards, including the school's Junior and Senior Athlete of the Year award. He secured him an athletic scholarship for college and, at the university, he decided to focus primarily on academics.

"I love running, but I really wanted to be a doctor. To me, academics comes first."

Offord's goal is to become an engineer, specifically in the field of biomedical engineering. "I am interested in developing better techniques and new prosthetics."

Offord's honours include an Ambassador Award for representing his school, parish, community or organization at significant events throughout a school year, a Leadership Award, in recognition of Christian leadership and community.



AnneMarie Ssemenda

Annemarie Ssemenda's dream is to become a pediatrician someday.

"Children are really precious. I love to dedicate my life to that medicine is one of the best ways to help them."

NT'S SCHOLARS

varied interests and skills to the University of Guelph

son

Mason's greatest passions is the spending summers in the

went on a canoeing trip that he wilderness and to outdoor recalls, adding that since, she has on the Ottawa River and Lake Algonquin Park and kayaked for among other trips.

ally demanding," she says. "But self and other people, and they've aspects of my life."

ational Institute, Mason's girl led to her appointment as the school Board. In this capacity, she which thousands of the area's ernment about the state of

vents for such causes as the local er team and Better Beginnings, a s volunteered as a life-saving nist with the Kingston Youth

program at U of G, Mason says d the responsibility people have

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ty, an attention to others, a responsibility and an ability to ll characteristics that have been Offord, a graduate of Our Lady h School in Guelph.

reader at his parish church, f the St. Jean de Brebeuf Society oods to the Guelph Food Bank

volunteer coach and referee in a he trained six days a week in

several honours, including his ar awards, and could have easily lege. Instead, when it came to academics.

be a part of a tough academic

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Ssemanda

da's work with — and love of parked a desire to become a

precious," she says. "I would to helping them, and I think the most important vehicles to

At Cathedral High School in Hamilton, Ssemanda volunteered for an international languages program that helped children learn English. She was also a basketball camp counsellor and worked with Hamilton's inner-city children, teaching them athletic and social skills.

"Though it was a very challenging program, it was also very rewarding to see the growth in the children throughout the summer," she says.

Despite this involvement, Ssemanda was an honour-roll student all through high school, was her school's president and belonged to the Chief of Police's Student Advisory Committee, working with other students in Hamilton-Wentworth to develop a partnership with police. She also wrote for the *Hamilton Spectator* on youth issues.

An accomplished soccer and basketball player, Ssemanda received Most Valuable Player awards for three years and was rated among the top 27 girl basketball players in Ontario.

She notes that she is very close to her parents, two brothers and one sister. "Family is very important to me. They teach you everything; they are the core of people that are always there for you."

At Guelph, Ssemanda is excited about playing basketball and earning a degree in biomedical sciences. Her goal is to eventually attend medical school and specialize in both pediatrics and tropical diseases.



Caroline Tucker

Caroline Tucker has always been able to balance a busy academic life with a demanding athletic schedule — and achieve great success at both.

At Charles P. Allen High School in Bedford, N.S., she had the second-highest academic average out of more than 450 students in her class in both 1999 and 2000 and ranked first in 2001.

She was also among the top winners in all athletic competitions she entered. She was her school's cross-country team's most valuable player for two years and was Atlantic and provincial champion in the 1,500- and 3,000-metre events, respectively.

A gold medalist in the Ian Hume Invitational in Quebec, she was named a member of Team Nova Scotia to attend the Legion National Championship in Calgary, where she placed fourth in the 3,000-metre and fifth in the 1,500-metre races.

Competitive soccer was another of Tucker's passions. "I began playing soccer at age nine to prove I could do everything my three brothers could do." She spent 10 years with the Scotia Olympics Soccer Club before giving it up for running.

"Running is one of the most rewarding aspects of my life," she says. "It has given me the opportunity to meet new friends, to travel, to learn and to reap benefits that will last forever."

At U of G, Tucker plans to study anthropology because "it offers opportunities in city planning and research, both of which I intend to investigate."



Lisa Werden

The importance of education and community involvement were two issues that Lisa Werden's parents always stressed as she and her three younger siblings were growing up. To ensure the family had time for these two pursuits, the Werdens never had a television in their Port Dover home.

"My parents figured we didn't need it. And we didn't. All of us played sports and were involved with Girl Guides and Scouting. We read and went on family camping trips and always played games together."

As a student at Port Dover Composite School, Werden began a newspaper called *The Lakeside Story*. Prior to this, she was a student correspondent for the community newspaper, *The Port Dover Maple Leaf*. She was also a member of the yearbook club, student council, the concert band and the badminton and rowing clubs.

As a member of her school's UNICEF chapter, she helped raise the largest donation amount per student in Ontario for the organization. In the community, she was president of the Port Dover Leo Club, a youth service

organization whose members raked leaves for senior citizens, planted trees and volunteered at Camp Trillium, a camp for children with cancer.

Werden was also an adult member of Girl Guides of Canada, volunteered with the Blood Donor Clinics of Port Dover and was district co-ordinator for the Ontario March of Dimes canvassing campaign.

Currently enrolled in biological sciences at Guelph, she hopes to specialize in wildlife biology and eventually teach or work for a government agency in that field.



Morgan Whitfield

A month-long trip to India when she was just 16 — a trip she funded herself — changed Morgan Whitfield's perspective on life and launched her fascination with international politics and development.

"I'd never been outside North America, so it was amazing to be in another culture," she says. "I remember seeing absolute and total poverty next to Maharaja palaces. It made me realize how sheltered we are from the rest of the world."

On her return home to Belleville, she put together a slide show on India that she presented to her history, geography and art classes at Centennial Secondary School. She also toured elementary schools, speaking about India's politics, culture and poverty.

"My goal was to give a sense of multiculturalism and diversity and encourage an understanding with empathy."

From there, Whitfield's interest in world affairs led her to participate in the local Model United Nations for three years, to attend conferences on human rights and security, to become involved in the fight against land mines and to give speeches throughout her community on the *United Nations*.

In her "spare time," she was in the top 10 per cent of her class, served as student council president and was a student trustee in the local school board. She also placed first in the Quinte Writers' Guild Fiction Contest, the Festival of Arts Literacy Contest and the UN Pilgrimage for Youths speech contest.

Studying international development at Guelph, Whitfield hopes to become a human rights lawyer and eventually work for Amnesty International or the UN.



Laura Zadro

Laura Zadro comes from a long line of U of G graduates. Her paternal grandmother, her father, two of her uncles and her brother — a Board of Governors Scholarship winner in 1999 — have all studied at Guelph.

"I guess it's become a family tradition," she jokes, adding that part of the reason for the Zadros' attachment to U of G is that her father's side of the family comes from Guelph.

Throughout the years, Zadro has had many opportunities to visit the campus, being a regular participant at the University's basketball camps.

Sports have played an important role in her life. At Lester B. Pearson High School in Gloucester, she swam and played basketball, volleyball, touch football, softball and badminton. She believes, however, that to succeed, a student must have balance.

"For me, academics, extracurricular activities and community work link together like a chain. Without these components, a student is incomplete."

In addition to being on the honour roll and co-presiding over student council, Zadro helped establish a nutritional program for her school and organized an International Women's Day celebration.

In the community, she was a volunteer swimming instructor, wrote for a local newspaper, participated in the annual CHEO Telethon and helped seniors at a local retirement home. Her many awards include a provincial Millennium Scholarship and the Patrick James Flynn Award for academic achievement, athletic excellence and significant contributions to extracurricular activities.

Hoping to enter medical school, Zadro is currently enrolled in U of G's biomedical sciences program.

Nominations for President's Scholarships must be made by secondary school principals and must arrive at the University of Guelph by Feb. 28. For more information about the scholarships, contact the Associate Registrar, Student Financial Services, University of Guelph, Guelph ON N1G 2W1, 519-824-4120, Ext. 6032, or visit the U of G Web site at www.uoguelph.ca.

GM Corn Not Harmful to Monarchs, Studies Show

Only a small portion of the monarch population comes into contact with pollen from any type of corn, let alone pollen from Bt corn

AN EXTENSIVE two-year research project by U of G and American scientists may put an end to the ongoing debate about whether genetically modified (GM) corn is harmful to the monarch butterfly.

A series of studies headed by Prof. Mark Sears, Environmental Biology, and scientists at a number of U.S. institutions is set to be published this week in the *Proceedings of the National Academy of Science* in Washington, D.C.

The studies were conducted at various locations across Ontario and North America's corn belt in both fields and laboratories. They examined a range of issues associated with GM corn, including toxicity and exposure rates.

All studies supported the conclusion: risk of GM corn pollen to the monarch butterfly is negligible.

"The risk is so small that it is almost not even there, almost impossible to measure," says Sears, who worked with U of G graduate students Diane Stanley-Horn and Heather Mattila on the collaborative research.

That finding is in direct contrast to previous studies that claimed monarch caterpillars were killed or severely affected by pollen from GM corn. Bt corn, as it is commonly called, has been altered by the transfer of genes from the naturally occurring soil bacterium *Bacillus thuringiensis* to corn plant cells. The U of G findings were also confirmed by a separate study at the University of Illinois that reached a similar conclusion.

Sears says monarch butterflies face many risks, including bad weather, deforestation, spraying of milkweed (the monarch's primary source of food) with herbicides, use of insecticides and even collisions with vehicles.

"For example, there was an early frost last winter in Mexico, where monarchs hibernate, that killed about two million of the 10 to 20 million monarchs in North America. And when I was driving into the country, I ran into two butterflies with my car, so multiply that by the number of cars on the road throughout the corn belt. My point is that all risks should be considered in comparison with that from Bt corn pollen."

Sears's studies found that only a small portion of the monarch population comes into contact with pol-

len from any type of corn, let alone pollen from Bt corn. In addition, field trials in five locations throughout the corn belt and Ontario confirmed that the levels of pollen on milkweed in and around cornfields had no effect on monarch caterpillars. About 90 per cent of a cornfield's pollen falls within five metres of the field's edge and rarely accumulates in enough concentration to affect monarch larvae.

"The combination of two important factors, the low level of toxicity of pollen and the small likelihood of exposure to pollen, leads us to con-

clude that risk is negligible," Sears says. He adds that the chance of a caterpillar being exposed to toxic pollen from Bt corn is less than one per cent.

Previous studies that suggested a harmful link between Bt corn pollen and monarch butterflies did not take these factors into consideration, he says.

Publication of Sears's studies by the National Academy of Sciences coincides with a deadline set by the U.S. Environmental Protection Agency for reregistration of Bt corn hybrids after a five-year period of

evaluation in the commercial arena.

Bt corn does not affect humans or other animals, but stymies a crop-damaging caterpillar called the European corn borer by producing a toxic protein in the green tissues of the corn plant.

"When comparing risks, it's important to compare benefits as well," adds Sears. "Bt corn reduces the use of insecticides and prevents the corn borer from invading the ear of the corn and releasing a fungus that is far more toxic than Bt corn pollen."

BY LORI BONA HUNT

CANARIE Provides More Funding for Virtual Learning Commons

Support allows fourth Canadian vet school to join collaborative project

CANADA'S veterinary colleges have received an additional \$150,000 from CANARIE Inc. for a virtual veterinary medicine learning commons.

The learning commons will act as a portal and will give veterinary students and faculty from all four of Canada's veterinary schools access to video-rich learning content and the opportunity to share educational and clinical resources.

CANARIE is a private, not-for-profit organization supported by Industry Canada to encourage the development of collaborative projects that use advanced Internet technologies to address structural barriers. In 1999, CANARIE committed \$1 million from its learning program to the virtual learning commons, which was spearheaded by OVC. Only 10 project proposals received funding

from CANARIE, and the learning commons is the only project to receive additional funding this year. The total cost of the project is about \$2.4 million, with the remainder to be provided with matching funds from the universities and industry partners.

The original CANARIE funding was set up to enable OVC, the Atlantic Veterinary College (AVC) at the University of P.E.I., the Faculté de Médecine Vétérinaire (FMV) at the Université de Montréal and corporate partner Lifelearn Inc. to establish a database-driven portal. The new funds mean that Canada's fourth veterinary school, the Western College of Veterinary Medicine (WCVM) at the University of Saskatchewan, will also be part of the project.

"I believe we received the addi-

tional funding because of the significant progress we have made in meeting the project goals," says project manager Gary Smith. "And by including the WCVM, it becomes a truly national project."

A portion of the new funds will be spent on videoconferencing equipment for WCVM. The college will be developing a new graduate-level course in molecular biology that it will share with OVC and AVC. Some of the funds will also go towards developing the portal and buying a CISCO broadcast server for FMV. The server will allow FMV to exchange broadcast-quality videos of veterinary procedures and surgeries over the Internet with existing servers at OVC.

To date, the virtual learning commons project has resulted in the development or progress towards collaborative graduate education, learnware modules and databases, including:

- a graduate-level course in epidemiology jointly taught between OVC and AVC using videoconferencing technology;
- an electronic database of radiological images with a diagnostic-quality scanner purchased with

CANARIE funds (development of the database is being led by Prof. Howard Dobson, Clinical Studies);

- a highly interactive module to teach students how to handle and restrain large animals (developed by Prof. Danny Butler, Clinical Studies); and
- a digital anatomy module that will eventually be incorporated into the first-year anatomy course (this is being led by Prof. Jeff Thomason, Biomedical Sciences).

The framework developed by the learning commons project will provide other professional schools with a model to help them develop their own virtual learning environments.

"The CANARIE project is unique because this is the first time several Canadian institutions have collaborated to create a virtual community to share professional program training on a broad geographical basis," says Smith.

OVC dean Alan Meek adds that no other country or profession has developed a portal of this kind. "We are pioneers, and I do believe we will continue to lead the way."

BY NATASHA MARKO

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Parents Offer Kudos for Move-in Days

5,000 students settle into campus residences as fall semester begins

CLOSE TO 5,000 STUDENTS descended on U of G over the Labour Day weekend to take up residence on campus. Some 3,000 new students arrived Sept. 1, with about 2,000 returning students moving in the following day.

They were welcomed to campus by 450 orientation volunteers, 130 residence assistants and cluster leaders and dozens of Student Housing Services staff. The orientation volunteers and RAs unloaded and carried luggage, accompanied students to their residence rooms and handed out coffee, doughnuts and cold drinks.

Also on hand to aid in the move-in effort were members of Security Services directing the massive lines of traffic across the University.

The hard work of everyone involved earned kudos from parents delivering their children to campus, including Brendan Soye, U of G's manager of Employee Relations.

"Like the other hundreds of first-year parents, we were here for the Sunday residence move-in," wrote Soye in an e-mail message to Irene Thompson, assistant director, residence life and desk services, Student Housing Services.

"We were extremely impressed — from the entertaining young guys who gave us directions, updates and humour as we patiently



Orientation volunteers unload a car as they help move a new student into residence on Labour Day weekend.

PHOTO BY STUDENT HOUSING SERVICES

waited our turn sitting in the car on University Avenue, to the unloading crews who had everything out of the car in less than two minutes, to the residence folks who welcomed our

daughter Kaitlin. From our perspective, you've done a super job in making this rather monster task enjoyable, efficient and welcoming. Thanks to you and all your residence staff, volunteers and student helpers in making this significant event in our life an enjoyable experience. Well done!"

Brenda Whiteside, associate vice-president (student affairs), pays special tribute to the Office of First-Year Studies and the student orientation team for their efforts in planning and running a "first-class" orientation program.

She also lauds Hospitality Services and Conference Services for their support of the barbecues held in residences across campus over the weekend and the Grounds Department for its work in sprucing up the campus in preparation for the students' arrival.

"It takes weeks of behind-the-scenes preparation and the efforts of hundreds of people to ensure successful move-in days," she says. "So it's rewarding every year when we receive compliments from parents about how well-organized and friendly our staff and students are."

"Most first-year students and their parents arrive not knowing what to expect, so it's important that we make their arrival a positive, welcoming experience. We couldn't do that without our first-rate team of students and staff."

Project Serve Takes Students Into Community

Volunteers to help out at more than 20 local agencies Sept. 22

SEVERAL HUNDRED U of G students, staff and faculty, along with some high school students, will be heading into the Guelph community Sept. 22 to volunteer at more than 20 local agencies as part of the University's award-winning Project Serve.

Now in its fourth year, Project Serve was initiated by U of G's citizenship education program to introduce students to community service. Project Serve was recently named 2001 Program of the Year by the Canadian Association of College and University Student Services.

"This prestigious national award is recognition of the strong sense of community here on campus and our strong links to the community around us," says Cheryl Rose, coordinator of U of G's peer helper program and citizenship education and Leadership, Service and Involvement Programs.

Working in teams of eight, Project Serve participants will spend several hours doing everything from cleaning conservation areas and

helping out at the Humane Society to delivering meals and sorting food at local food banks. Each team will be headed by a team leader who is a senior student, faculty member or staff person.

"Project Serve is a beloved program on our campus not only because of its fun and educational atmosphere, but also because it pro-

vides an opportunity to give back to our community," says student Mike Stephenson, who will work as a team leader again this year.

"For a student attending university, community can be easily forgotten. Project Serve reminds all of us that the community is there and that we can and should have a significant impact within it."

Buses will depart for project sites at 9 a.m. from the University Centre. Participating agencies include St. Joseph's Hospital, Guelph Food Bank, Meals on Wheels, the Welcome In Drop-In Centre, the Donkey Sanctuary of Canada, the Hanlon Creek Rehabilitation Project, the Centre Wellington Resource Group, the Distress Centre, Women in Crisis,

the Humane Society and Nature Conservancy of Canada.

After volunteering, the students will return to campus to have lunch and talk about the experience.

United Way Community Services of Guelph-Wellington, Student Volunteer Connections and Elliot Coach Lines are all official sponsors of Project Serve 2001.

What makes U of G a great and caring community? It's you, our students, faculty, staff and alumni! Orientation week is a wonderful demonstration of our community working together.

Thanks to:

- The orientation team, who worked all summer planning the orientation events
- The 450 orientation volunteers and the residence assistants who came a week early for training, helped students move into residence and helped run all of the orientation events
- Staff in Housing, Hospitality, Student Life and Career Services, Security Services, Physical Resources and other units and departments who worked over the long weekend to support the move-in and make the campus look beautiful
- Faculty and staff who put in the extra hours the first week to help new students with course, program issues and registration
- Alumni who supported the new student convocation and family welcome

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Cleaning, Repairs Continue in Crop Science Laboratory

University still awaiting reports from Ministry of Labour, fire marshal's office

GENERAL CLEANING and repairs to a Crop Science Building laboratory that was the scene of a fire Aug. 9 are continuing, says Chris Pickard, director of planning, engineering and construction.

Pickard says crews are replacing lights, ceilings and flooring in the lab, which is located in Room 120. Estimated damage is \$15,000 to the

lab itself and \$40,000 for equipment, he says.

He adds that the fire detection system that was damaged in the fire was immediately repaired, has been tested and is fully operational.

Meanwhile, Joy Kirkby, a third-year student and research assistant who was working in the lab when the fire occurred and was injured in the

mishap, was discharged from Hamilton General Hospital's Burn Trauma Unit Aug. 29. She is now back on campus for fall classes.

Nancy Sullivan, vice-president (finance and administration), says the University is still awaiting reports from the Ministry of Labour and the provincial fire marshal's office, both of which are investigating the fire.



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LETTERS

INTEGRATED PEST MANAGEMENT HAS REDUCED PESTICIDES

I am writing in response to Prof. Henry Staempfli's letter in the Sept. 5 issue of *@Guelph*. Contrary to his belief, there has been a great reduction in pesticide use on U of G's campus over the past 10 years.

This ongoing reduction has been the result of an integrated pest management program that includes: eliminating blanket spraying for weeds; naturalizing areas; using native and pest-resistant varieties of plants in new plantings; cutting turf higher to promote root growth and reduce weeds; and using alternative methods to eliminate weeds, such as spot burning.

The Grounds Department's maintenance section continues to explore many avenues and to consult with groups such as the Ontario Public Interest Research Group and Supporting Pesticide Reduction in Guelph to creatively and effectively deal with pests and diseases and to minimize any harmful impact on the environment, while maintaining the health of the living, growing landscape that makes our campus one of the most beautiful in Ontario.

Paul Specht
Director, Maintenance
and Operations

DROUGHT HURTS CAMPUS PLANTS

This year's drought has been very damaging to plantings on campus, from newly planted shrubs to the large well-established trees that line the main walkways.

Many of these will recover in next year's growing season, but some will never recover.

Although U of G has its own wells, the University has complied with the spirit of the City of Guelph's watering ban. The only campus watering done was the bare minimum to avoid permanent damage to the Conservatory Garden, Alumni Stadium and several teaching gardens. In addition, some hand watering of mature trees was accomplished by using two water trailers.

The effects of the drought can be seen in sports fields and grassy areas, which have become brown and dormant. Their health may return if next year's weather conditions are favourable. The drought stress has reduced the density of the grass, allowing space for weeds to germinate. Following consultation with the City of Guelph, the University resumed limited irrigating of sports fields Sept. 12 to provide a safe playing surface for our students.

Beautiful old trees are perhaps the greatest and most unfortunate casualties of a long-term drought. Their surroundings and local soil conditions affect their ability to survive the drought. Over several unfavourable seasons, the trees become stressed and are susceptible to disease and insect infestation. The damage done by these pests may be extensive enough to kill even a well-established tree.

Bushes, flowering plants and trees can recover and thrive after harsh conditions. But long-term lack of water and rainfall, combined with other stresses like heat and pests, can result in the loss of some of the most beautiful aspects of this campus.

John Reinhart
Manager, Grounds Maintenance

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Vice-Provosts Named for University of Guelph-Humber

Continued from page 1

do this both academically and from an administrative and management perspective. This is a winning combination designed to make the new Guelph-Humber program work and help students succeed."

As chief academic officer, Nightingale will be responsible for the management, design and development of the joint programs, implementation and marketing, and recruitment of students, faculty and staff. Nightingale, who has academic experience at both the university and college levels and holds both a college diploma and university degrees, was the founding dean of CSAHS and designated dean for the Faculty of Management. Previously, he had served as dean of FACS and director of the School of Hotel and Food Administration.

Nightingale helped establish the

executive Web-based MBA in agribusiness program with Athabasca University and U of G's Centre for Families, Work and Well-Being. He also introduced research infrastructure at a college level to support the social sciences.

Prior to joining Guelph in 1987, he held a number of academic and executive positions in the United Kingdom that included assignments in Europe, Africa, Asia and Australia. He completed his graduate studies at the University of Surrey and the prestigious Sloan Fellowship Program at the London Business School.

Trick will oversee administrative and financial program management, including new construction and facilities. He will also help build partnerships with employers in conjunction with the development of academic programs, co-ordinate

human resources, organize fundraising, and lead budget development and management.

As assistant deputy minister for post-secondary education, Trick has led the development of the province's plan for accommodating the future enrolment growth that will result from the "double cohort" and rising participation rates. He has strengthened co-operation between colleges and universities, and introduced system-wide measures to ensure that post-secondary institutions are serving Ontario's students. Trick has also served as assistant deputy minister of finance and has undertaken assignments at the Canadian Embassy in Washington, D.C., and IBM Canada. He holds degrees from York, Brandeis and Harvard universities.

BY LORI BONA HUNT

@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline	Publication Date	Deadline
Oct. 3	Sept. 24	Nov. 14	Nov. 5
Oct. 17	Oct. 8	Nov. 28	Nov. 19
Oct. 31	Oct. 22	Dec. 12	Dec. 3

Note to Readers:

Because of space limitations, @Guelph was unable to run any classified ads in this issue. They will return in the Oct. 3 issue.

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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue Sept. 23 with "Fall Changes Everything." The walk leaves from the Nature Centre at 2 p.m. Suggested donation is \$3 per person.

Archeologist Larry Drew leads the hands-on workshop "Artifacts to Archeology: Can You Dig It!" Oct. 6 from 1 to 4 p.m. Cost is \$18 for adults, \$9 for children (must be accompanied by an adult) or \$40 for a family of four. Registration and payment are required by Sept. 21.

Interpretive naturalist Chris Earley leads a watercolour course Oct. 10 from 1:30 to 3:30 p.m. Cost is \$25. Registration and payment are required by Sept. 26.

Artist Barbara Guy Long offers a hands-on workshop on "Willow Wattle Weave, Level II" Oct. 12 from 9 a.m. to 4 p.m. Cost is \$125. Registration and payment are required by Sept. 28.

ART CENTRE

The Macdonald Stewart Art Centre will host an opening reception and publication launch for the exhibitions "Paul Hoeffler: Jazz Photographs 1950s to 1990s," "Robert Mason: Moving Home," "Framed" and "Inuit Art 1950 to 2000" Sept. 20. Hoeffler will give a gallery talk at 7:30 p.m., followed by a reception.

Sculptor Tom Dean gives a public talk Sept. 24 at 2:30 p.m. at the art centre.

Artist Robert Mason will give a brown bag lunch talk Sept. 25 at noon.

On Sept. 27 at 7 p.m., the art centre hosts a screening of "Globalization and Post-Colonialism: A Video Adventure," introduced by Prof. Susan Douglas, Fine Art and Music. A reception will follow.

CONCERTS

The fall Thursday noon-hour concert series opens Sept. 20 with Band du Soleil and continues Sept. 27 with pianist Naum Shtarkman performing works by Tchaikovsky. On Oct. 4, the Musicians in Ordinary feature soprano Hallie Fishel and luteist John Edwards. The concerts are held in MacKinnon 107.

LECTURES

OVC's Equine Club presents Hugh Townsend of the Western College of Veterinary Medicine considering "Controlling Equine Influenza With a Cold-Adapted Modified Live Intranasal Vaccine" Sept. 26 at 12:30 p.m. in OVC 1714.

The School of Languages and Literatures Forum presents Prof. Daniel Chouinard discussing "Taking Children's Narrative as a Serious Art Form: Robert Soulières and the Metanarrative Tradition of the Antinovel Genre" Sept. 27 at 4 p.m. in the University Club on UC Level 5.

NOTICES

During the fall semester, the McLaughlin Library and OVC Learning Commons are open 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on weekends and holidays.

Interested in helping the environment and working on your communication and presentation skills? Send e-mail to recycle@pr.

uoguelph.ca or call Ext. 8129 to help promote enhanced recycling in residences and classrooms.

A study group to read and discuss the writing of radical bishop John Spong begins Sept. 19 at noon in Rathby 100. Call Rev. Lucy Reid at Ext. 2390 for details.

Womanspirit, a weekly spirituality circle for women of all faiths or none, meets Fridays at 11:30 a.m. in UC 533.

The Stress Management and High Performance Clinic will again hold classes on relaxation and stress management skills this semester, with classes beginning Sept. 25 and Oct. 9. Cost is \$40 for U of G students, \$60 for UGSA members and \$120 for others. The clinic is also offering a Better Sleep Program beginning Oct. 2. Cost is \$20 for U of G students, \$50 for others. For more information, call Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

PhD student Maggie Laidlaw and Prof. Bruce Holub, Human Biology and Nutritional Sciences, are studying essential fatty acids in the treatment of rheumatoid arthritis. Anyone with rheumatoid arthritis interested in participating in the study can call Laidlaw at Ext. 3721 or 837-1732 or send e-mail to laidlawm@uoguelph.ca. Participants won't be required to discontinue any current medications for this study.

SEMINAR

The Department of Chemistry and Biochemistry seminar series presents Alex Adronov of McMaster University explaining "Chromophore-Functionalized Dendrimers for Light Harvesting and Conversion"

Sept. 19 at 3:15 p.m. in MacNaughton 222.

The Department of Physics presents Mark Matsen of the University of Reading in England discussing "Block Copolymer Melts: A Model System for Studying Complex Liquids" Sept. 25. On Oct. 9, Alan Denton of North Dakota State University considers "Charged Macromolecules: From Interactions to Phase Transitions." The seminars begin at 4 p.m. in MacNaughton 113.

"Paying Politicians" is the focus of Mattias Polborn of the University of Western Ontario Sept. 28 at 3:30 p.m. in MacKinnon 237. The talk is sponsored by the Department of Economics.

TEACHING SUPPORT

Teaching Support Services' fall workshop series for campus instructors continues Sept. 24 with "HTML I: Creating Basic Course Web Pages," Sept. 26 with "Effective Courseware Design and Delivery" and Sept. 28 with "Online Assessment." October offerings include "Learning Technologies Design Café" Oct. 5, "Multimedia for Teaching" Oct. 10, "Teaching With PowerPoint: The Basics" Oct. 11, "WebCT 3.5: Hands-on for First-Time Users" Oct. 16 and "Designing for the Web: Good Practices" Oct. 19. Detailed descriptions for all sessions are available on the TSS Web site at www.tss.uoguelph.ca. Online registration is required.

THESIS DEFENCES

The final examination of M.Sc. candidate Jennifer Simard, Zoology, is Sept. 10 at 2 p.m. in Axelrod 265A. The thesis is "Effects of Selective Logging on Terrestrial Small Mam-

mals and Arthropods." The adviser is Prof. John Fryxell.

The final examination of Melissa Grey, an M.Sc. candidate in the Department of Zoology, is Sept. 14 at 2 p.m. in Axelrod 265A. The thesis is "Predator-Prey Relationships of Naticid Gastropods and Their Bivalve Prey." The adviser is Prof. Elizabeth Boulding.

The final examination of PhD candidate Wineeta Weebadda, Pathobiology, is Sept. 26 at 1:30 p.m. in Pathobiology 101. The thesis is "Biochemical Characterization of *E. Coli*-Binding Proteins From Avian Air Sacs and Plasma." The advisers are Profs. Tony Hayes and Bruce Hunter.

The final examination of John Walsh, a PhD candidate in the Department of History, is Sept. 28 at 3 p.m. in MacKinnon 132. The thesis is "Landscapes of Longing: Colonization and the Problem of State Formation in Canada West." The adviser is Prof. Jamie Snell.

COMMUNITY EVENTS

The Wellington County Branch of the Ontario Genealogical Society will meet Sept. 25 at 7 p.m. at the Unitarian Church, 122 Harris St.

The Central Ontario Orchid Society will hold its annual show and sale Sept. 29 from 11 a.m. to 5 p.m. and Sept. 30 from 9 a.m. to 5 p.m. in the University Centre. Admission is \$5.

The Waterloo-Wellington Wildflower Society will meet Sept. 19 at 7:30 p.m. at the Arboretum Centre. Paul Shepard will discuss "The Transition From Exotic to Native Plant Gardening."

University Club of Guelph

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(For Non-Members)

Effective through May 24, 2002, University Club members will receive their first hot lunch entrée, sandwich or salad bar of each week free of charge. The value of the free entrées is approximately equal to membership dues. When members actually buy their lunch, they pay 25% less than non-members. Non-members who like to pay full prices are encouraged to visit the club often!

New members are welcome. The entrée program begins as soon as the membership card is issued. Application forms are available at the bar.

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- 7 OVC grad helps shape the future of Ontario agriculture.

Campus Master Plan Is Focus of Meeting

ALL MEMBERS of the U of G community are invited to attend the first town hall meeting on the campus master plan review Oct. 17 from noon to 1 p.m. in Peter Clark Hall.

Representatives from du Toit Allsopp Hillier, the consultants engaged by the University to oversee the review, will introduce the campus master plan process and describe their work to date.

Following the meeting, focus groups will discuss and propose design ideas about the campus from 1 to 4:30 p.m. The groups, representing a broad section of the U of G community, have been working on the master plan review since the beginning of the year. Anyone wishing to be part of the focus group discussions can contact Prof. Jim Taylor, Landscape Architecture, co-ordinator of the campus master plan review, at Ext. 4930 or jtaylor@pr.uoguelph.ca.

Guelph is currently updating its campus master plan as part of its long-range planning for facilities, physical development and the landscape of the campus. It is the first major campus planning exercise since 1987 and an integral part of planning for the "double cohort." (See "Toward 2010" column on page 2).

Continued on page 8

Two to Receive Convocation Honours

More than 550 degrees and diplomas to be awarded at three evening ceremonies

U OF G WILL AWARD two honorary degrees and about 550 degrees and diplomas during fall convocation ceremonies Oct. 15 to 17 in War Memorial Hall. All ceremonies begin at 7:30 p.m.

Honorary degree recipients are Donald Woods, a chemical engineering professor at McMaster University, and Michel Laroche, a marketing professor at Concordia University.

Woods will receive an honorary doctor of science degree and give the convocation address Oct. 15 during the opening-day ceremony for the College of Physical and Engineering Science, the Faculty of Environmental Sciences, the Ontario Agricultural College and the Ontario Veterinary College.

The author of six books and hundreds of articles, book chapters and reports, Woods has taught at McMaster since 1970. He is recognized internationally as an academic scholar in teaching, research and ad-



Michel Laroche

ministration, and is the recipient of an OCUFA Teaching Award and a 3M Fellowship. Most recently, Woods has promoted problem-based learning across many university disciplines and has been recognized with awards for engineering education from around the world.

He is a member of the Chemical Institute of Canada, the Canadian



Donald Woods

Society of Chemical Engineering, the Association of Professional Engineers of Ontario and the American Institute of Chemical Engineers.

Laroche will receive an honorary doctorate of science and give the convocation address at the Oct. 17 ceremony for the College of Social and Applied Human Sciences.

Known as the foremost market-

ing scholar and educator in Canada, Laroche has been recognized internationally with numerous awards. He has written 27 major textbooks in both English and French as well as several hundred book chapters, manuals, study guides and papers.

Laroche also wrote a major annotated bibliography published by the American Marketing Association and has served as a marketing expert witness in Superior Court and federal cases. He is a member of the Royal Society of Canada's Finance Committee, serves on the Fellows Nominating Committee of the American Psychological Association and was vice-president, membership for Canada, of the Academy of Marketing Science.

The Oct. 16 ceremony will recognize students graduating from the College of Biological Science and the College of Arts. Prof. Fred Ramprasad, new associate dean of the B.Sc. program, will give the convocation address.

United Way Campaign Kicks Off

Volunteers, students set the pace for annual fund-raiser



Campus United Way co-ordinators and canvassers gather for a training session in preparation for launching the 2001 campaign. PHOTO BY MARTIN SCHWALBE

U OF G UNITED WAY volunteers invited the campus community to join them for coffee Oct. 1 as the official kickoff for this year's fund-raising drive. Coffee was served in the UC courtyard, and numerous departments across campus held their own coffee-break events to mark the start of the annual United Way campaign.

Campus volunteers have set a

goal of \$245,500 to support the Guelph and Wellington United Way, which hopes to raise more than \$2 million. More than 60 community agencies and organizations will receive funding from the campaign.

U of G students kicked off the larger community campaign Sept. 8 by selling Tootsie Pops in Guelph and surrounding communities. The Lollypalooza event was organized by

the Central Student Association as an orientation week activity for new students. It raised \$6,500.

The eight-week campus campaign will include many events organized by individual departments, campus-wide incentive draws, a vacation raffle and the all-important distribution of payroll deduction forms.

Co-chairs Karen Reimer, man-

ager of Co-operative Education Services, and Prof. Bev Kay, Land Resource Science, say payroll contributions made by employees and retirees are the backbone of the University's success in supporting the United Way.

"It's the easiest and most effective way to support people in our community who need our help," says Kay. "A weekly gift of only \$5 will provide a month of hot meals for a senior through Meals on Wheels. Two dollars a week will serve six breakfast meals to a school-age child."

Payroll forms returned to United Way canvassers by Oct. 17 will be eligible for an incentive draw; prizes have been donated by members of the University community. A second incentive draw will be held Nov. 15.

In addition, the campus committee is sponsoring a vacation raffle. First prize is the use of a one-bedroom condo for a week at one of several resort locations. Second prize is a U of G leather jacket, and third prize is a getaway night for two at the Best Western in Guelph and 20 per cent off dinner at Mirage Restaurant.

Tickets are \$1 each or three for \$2 and are available from all United Way canvassers.



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SENATE REPORT

Community Commended for Response Following U.S. Terrorist Attacks

PRESIDENT MORDECHAI ROZANSKI began the first Senate meeting of the 2001/02 academic year Sept. 25 by thanking the U of G community for rallying individually and collectively following the Sept. 11 terrorist attacks in the United States.

The community's efforts, Rozanski said, included extended counselling services, peace vigils, special dinners for international students, and participation in a walk for peace.

"This response to the situation through the efforts of

students, faculty and staff has been a vivid demonstration of the values that make this University strong — our sense of community, our sense of compassion and our sense of mutual respect," he said.

Later in the meeting, a student senator commended the U of G administration for its quick response to the Sept. 11 events by providing crisis management counselling and gathering places for students to obtain more information on the events, and generally supporting international students.

LOOKING AHEAD

Rozanski briefly reviewed his three institutional priorities for 2001/02 — government advocacy, planning for growth with quality at U of G and the University's capital campaign.

On government advocacy, the president reminded senators that the province finally announced multi-year funding for universities, but did not increase basic operating grants to cover inflation or restore quality in the system. Much of the new funding, he said, is directly tied to increased enrolments and is therefore somewhat contingent. His efforts, he added, will be to advocate on behalf of protecting the

integrity of universities' funding system.

On planning at U of G, Rozanski said these efforts will continue to address both people issues — whether students, faculty or staff — and facilities.

The four major planning areas are: enrolment growth with quality; focusing research themes; faculty and staff recruitment and retention; and enabling facilities for the future. Multi-year financial planning will also be critically important to ensure the University can achieve its institutional planning goals in each of the four planning areas, he said.

On the capital campaign, the president reported the University is

making good progress and the institution will continue advancing its fund-raising efforts with a view to publicly launching the campaign in spring 2002.

GUELPH-HUMBER LAUNCHED

Rozanski informed senators that U of G and Humber College formally launched their new joint programs and facility Sept. 21 at the Ontario Universities' Fair in Toronto.

He noted that Guelph-Humber's booth at the fair handed out more than 7,000 information booklets to prospective students and their parents.

Continued on page 10

TOWARD 2010

Editor's note: This is the first in a series of regular columns designed to keep the University community informed about U of G's ongoing planning activities. These activities build on the foundation of Toward 2000 and the University's strategic planning process in the mid-1990s, as well as Guelph's plans for the increased cohort and beyond.

A KEY COMPONENT of U of G's planning for its long-term future is the current review of the campus master plan.

Launched earlier this year, the review is intended to update the plan and provide a comprehensive framework for the University's physical development and environment that is based on the institution's academic priorities and key strategic directions, including growth with quality, research-intensiveness, residential focus and learner-centredness.

First created in 1964 as the long-range development plan, the campus master plan guided institutional growth in the 1960s and '70s.

It was updated about every five years, with the last review occurring in 1987. Since then, the University has experienced extensive change in academic programs and strategic directions, says Nancy Sullivan, vice-president (finance and administration).

As a result of dedicated government funding, the University is also planning and building new facilities, including the upcoming 1,500-seat classroom complex, supported by the provincial SuperBuild fund.

Chris Pickard, director of planning, engineering and construction, and Prof. Jim Taylor, Landscape Architecture — seconded to serve as plan co-ordinator — are overseeing the review.

A steering committee chaired by Mary-Elizabeth Flynn, a member of the Physical Resources and Property Committee of Board of Governors, and consisting of faculty, senior administration, staff and students was established and has held several meetings.

The committee has also hired

the firm of du Toit Allsopp Hillier of Toronto to produce an updated campus master plan.

Building on previous plans, the revised plan will recognize present and future needs and will address major issues facing the University over the next decade. Some of the issues already identified are:

Growth: U of G's enrolment will near 18,000 undergraduate and graduate students by 2007/08.

Academic planning: Colleges and departments have been reconfigured and changed in size and resource requirements. They will continue to experience change in the future.

Fiscal responsibility: The plan must recognize available financial resources for the development and maintenance of the University's physical plant. It will also identify opportunities for funding under the capital campaign, from alumni and friends of the University or from other outside sources.

Continued on page 10

Editor Barbara Chance b.chance@exec.uoguelph.ca Design Peter Enneson Layout Linda Graham l.graham@exec.uoguelph.ca Advertising Brian Downey b.downey@exec.uoguelph.ca Acting Director Chuck Cunningham cunning@registrar.uoguelph.ca	@Guelph is published every two weeks by Communications and Public Affairs, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Inquiries: 519-824-4120; Editorial: Ext. 6580; Distribution: Ext. 8702; Advertising: Ext. 6665; www.uoguelph.ca/adguide Classified: Ext. 6581; Fax: 519-824-7962; Web site: www.uoguelph.ca/atguelph.	Articles may be reprinted with credit to @Guelph Subscriptions \$22 (includes GST); \$30 outside Canada ISSN 0836-4478 @ 1998 Printed on recycled paper UNIVERSITY GUELPH
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FORUM TO REFLECT ON U.S. TRAGEDY

U of G will hold an academic forum Oct. 3 from 7 to 9 p.m. in War Memorial Hall to reflect on the tragic events that occurred in the United States Sept. 11. An introduction by president Mordechai Rozanski will be followed by a panel discussion with Profs. John Benson, Economics; Karen Wendling, Philosophy; Richard Reid, History; Muhammed Sadiq, Land Resource Science; and Janine Clark, Political Science. Moderator is University professor emeritus Henry Wiseman. Everyone is welcome.

UN ADVISER TO GIVE ANNUAL HOPPER LECTURE OCT. 23

Physician Nafis Sadek, recently executive director of the UN Population Fund, will deliver U of G's 2001 Hopper Lecture Oct. 23 at 7:30 p.m. in Room 113 of the MacNaughton Building. The first woman to head a UN voluntarily funded program, Sadek was previously director general of Pakistan's Family Planning Council and is now a special adviser to the UN secretary general. She will be available to meet with students and faculty Oct. 22 and 23. For more details, contact Isobel Lander in the Centre for International Programs, Ext. 6904 or ilander@uoguelph.ca.

CFI INFO SESSION SET

An information session for the Canada Foundation for Innovation's (CFI) New Opportunities program will be held Oct. 16 at 4 p.m. in Room 442 of the University Centre. Faculty eligible for this program are those within 18 months of the start of their first academic appointment. CFI normally provides funding for research infrastructure such as equipment and renovations, but will cover other costs under special circumstances. The matching program of the Ontario Innovation Trust will also be covered at the session.

CROSSWALK BEING INSTALLED ON SOUTH RING ROAD

Construction to install a crosswalk on South Ring Road west of the University Centre exit was slated to begin Oct. 1 and will take about one week to complete. Traffic flow is to be maintained on South Ring Road, but may be reduced to two lanes.

TSS LAUNCHES LISTSERV

Teaching Support Services (TSS) has a new way of informing the campus about workshops and other educational development opportunities. "TSS-FAC" is an announcements-only e-mail list designed for those who support teaching at U of G. E-mails will no longer be forwarded through departmental secretaries. Instructors and instructional support staff who wish to continue receiving notices of upcoming TSS events should e-mail Susan Rimkus Carey at srinkus@uoguelph.ca.

CCS Introduces New, Improved Help Service

Computing, networking and telephone support services set up shop in one location



Ready to take your call at the new CCS Help Centre are, from left, Mark Sloggett, Yaseen Shaik and Elaine King. PHOTO BY MARTIN SCHWALBE

WHEN YOU'RE STUCK with an e-mail problem, when you can't figure out why your computer is turning against you, when your telephone doesn't seem to be working, who ya gonna call? The Computing and Communications Services (CCS) Help Centre.

As of this semester, CSS has introduced a new and improved computing, networking and telephone help service that will eventually serve the University community as a single contact point to reach any CCS service.

Although CCS front-line services over the phone currently remain the same, the environment has changed significantly, says Phil Jones, senior manager, CCS Operations. Both physically and conceptually, the CCS Help Centre has taken on a new and much more customer-centred approach, he says.

Conceptually, the centre is part of a much larger process being implemented to provide more effective service to the University community, says Jones. Late last winter, CCS embarked on a major reorganization, necessary to keep up with the changing demands of technology, he says. Several new departments were created, one of which, Operations, was mandated to oversee the develop-

ment and creation of the new Help Centre.

With the collaborative leadership of Jones and Carol-An Nagy, manager of the CCS Help Centre, Operations is responsible for the development and integration of the centre within CCS and the University.

"The growing dependency on information technology (IT) to satisfy the needs of the University community requires CCS to deliver and support cost-effective IT services appropriate to those needs," says Jones. "To do this, we need a comprehensive set of best practices, based on industry standards for IT service management. The Help Centre is only the first stage in the long-term implementation of these best practices, but it's the one most visible to the University community."

Located in the basement of the Animal Science and Nutrition Building adjacent to the CCS Computer Centre, the Help Centre is a large room filled with staff ready to provide help and support services for computing, networking and telephone-related needs.

"You get a great feeling when you help someone out," says Andrew Phoenix, an Ext. 8888 consultant working in the centre.

The Help Centre's goal to provide a single telephone contact for the University community by combining all front-line CCS services is expected to be reached by the fall of 2002, Jones says.

Currently, CCS has six separate support services located in the Help Centre:

- Ext. 8888 (formerly known as the HELP line)
- Operations technicians
- Telecommunications/telephone help desk (Ext. 4444)
- Support analyst (formerly called the NOC)
- Switchboard telephone operators (Ext. 0)
- ResNet help line — during busy ResNet times (Ext. 74663).

Jones notes that as part of an ongoing and significant relationship with Hewlett-Packard, CCS will be using HP products to track service calls and to monitor systems. "This will provide more effective customer service to the University," he says.

For more information, visit the Web site www.uoguelph.ca/ccs or call the new CCS Help Centre at Ext. 8888.

BY KATE BRAND
COMPUTING AND
COMMUNICATIONS SERVICES

Scottish Colloquium Oct. 13

UOF G's Scottish studies program will hold its annual fall colloquium Oct. 13, featuring presentations on a variety of topics related to Scottish culture. This year's theme is "Regulating Culture and Society in Scotland," with topics to include Scots and Canadian literature, Scottish government, and Scots and the law.

Plenary speaker is Keith Brown of

the University of St. Andrews, who will speak on "A Community of Honour? The Scottish Nobility c.1560-1640." Brown is the recipient of the 2001 Frank Watson Prize in Scottish history, awarded each year by Canada's Scottish Studies Foundation in recognition of the best book, monograph or dissertation on Scottish history published that year.

The colloquium runs from 9 a.m.

to 5 p.m. in Room 103 of the University Centre. Cost is \$25 (with lunch) or \$15 (without lunch) for members of the Scottish Studies Foundation and \$30 or \$20 for non-members. Students are admitted free.

For more information or to make reservations, call Ext. 3209. Details are also available on the Web at www.uoguelph.ca/history/scotstudy/pages/conferences.htm.

PEOPLE

PHD STUDENT EARNS KUDOS

Guosheng Chen, a PhD student in toxicology in the Department of Chemistry and Biochemistry, received the prize for best oral student presentation at the 21st International Conference on Dioxins in Gyeongju, Korea, in September. His adviser is Prof. Nigel Bunce.

OPEN LEARNING PROGRAM STUDENT HONOURED

Mary Ann Bocock, an open learning program student, has been awarded the 2001 Malik Scholarship for academic excellence in the distance education course "Statistics for Business Decisions." The scholarship is sponsored by the Department of Mathematics and Statistics in honour of retired faculty member Henrick Malik. A registered dietitian and past president of the College of Dietitians of Ontario, Bocock is now pursuing a PhD in applied human nutrition at Guelph.

CHEMIST JOINS PANEL

Prof. Nigel Bunce, Chemistry and Biochemistry, has been appointed to the Canada Foundation for Innovation expert review panel on aquatic ecology for the fall 2001 competition.

COUNSELLOR CHAIRS CONFERENCE COMMITTEE

Jill Johnson, B.Sc. (Env.) counsellor in the Faculty of Environmental Sciences, is program committee chair for the 2001 conference of the National Academic Advising Association (NACADA), to be held Oct. 11 to 14 in Ottawa. NACADA, whose goal is to enhance academic advising, has more than 6,000 members across North America, in Puerto Rico and in other countries. This is the first time the conference has been held in Canada.

ZOOLOGIST HONOURED

Ken Oakes, a PhD student in the Department of Zoology, is this year's recipient of the M.A. Ali Graduate Chair Award. Created by Babu Ali, a professor at the University of Montreal, the award goes to an outstanding PhD student in aquatic biology at Guelph. As recipient, Oakes will give a public lecture on "Oxidative Stress in Fish Exposed to Industrial Effluents" Oct. 10 at 1:30 p.m. in Room 306 of the Animal Science and Nutrition Building.

CIDA AWARDS TO NINE

Nine U of G master's students are among the 63 recipients of the Canadian International Development Agency's 2001 Awards for Canadians to support research in developing countries. Six awards went to students in the School of Rural Planning and Development — Tricia Colagiovanni, Cathyrina Finet, Lisa Hardess, Hibak Hersi, Rhiannon Putt and Elaine Stavnitzky. Other recipients are Caroline Falaiye, Faculty of Environmental Design and Rural Development; Kathleen Fernandes, Landscape Architecture; and Terah Sportel, Rural Extension Studies.

Research Centre Equipped for Takeoff

Interdisciplinary work on soft materials will lead to better understanding of food products, processes and packaging

U OF G's Centre for Food and Soft Materials Science (CFSMS) is ready for takeoff, but it needs more human resources to soar to its full potential, says the centre's director, Prof. John Dutcher, Physics.

Over the past year, scientific research equipment worth \$5 million — including two state-of-the-art nuclear magnetic resonance (NMR) spectrometers — has been installed on campus, thanks to funding from the Canada Foundation for Innovation, the Ontario Innovation Trust and industrial partners.

But additional faculty, technical staff, post-doctoral fellows and graduate students are needed before the rest of the new equipment on campus will be used to maximum advantage, says Dutcher. Filling that gap is the intent of an application submitted this fall to the Ontario Research and Development Challenge Fund (ORDCF) to establish a Food Institute at U of G.

A successful ORDCF application would open up exciting research opportunities, he says, lending crucial support to the "amazing range of expertise and facilities" already assembled under the CFSMS banner.

The centre brings together 19 research groups from three colleges: CPES, OAC and CBS. The assembled talent includes food scientists, physicists, chemists, biochemists, microbiologists and molecular geneticists. The common link for all the scientists involved with the centre is their interest in the science and technology of soft materials, ranging from biological membranes and bacteria to polymers and fat crystal networks.

New tools available to CFSMS investigators include the new NMR facility in the MacNaughton Building, \$1 million worth of equipment for the Department of Food Science's



U of G's new nuclear magnetic resonance spectrometers will support research by the Centre for Food and Soft Materials Science. In photo are Prof. Jim Davis, a principal investigator, and Valerie Robertson, manager of the new NMR facility in the MacNaughton Building.

PHOTO BY MARTIN SCHWALBE

packaging performance laboratory; two scanning probe microscopes; a rotating anode X-ray generator; and a host of other equipment dedicated to food chemistry and molecular and biochemistry research.

These resources will allow Guelph researchers to "push the frontiers of science" by pursuing and extending projects that weren't possible before, says Dutcher.

Their collective efforts are ex-

pected to shed new light on the relationship between the function of many different kinds of soft materials and their structure and dynamics, as well as the effect of processing conditions, he says.

"In addition, we intend to identify useful biological compounds, extract them, incorporate them into something new and characterize the properties of the new value-added material. It goes all the way from bi-

ology and physics up to engineering."

The more applied work will lead to better understanding of food products, processes and packaging, which will contribute significantly to the agri-food industry, Dutcher says.

The interdisciplinary approach is essential to advance fundamental studies "because the materials we're studying are so complex," he adds.

The new NMR spectrometers, which cost a total of \$2.3 million, enable highly detailed studies of the structure and dynamics of complex molecules. They will help researchers accurately characterize the new compounds they create.

The 600-megahertz (MHz) narrow-bore spectrometer is used to study large biological molecules, primarily in solutions, although it can be used for small solid samples.

The wide-bore 500-MHz spectrometer enables researchers to study a greater range of solid samples at a level of detail not readily available elsewhere in Canada.

Already the NMR lab is in use around the clock for a variety of fundamental and applied studies, says Valerie Robertson, manager of the NMR facility.

Prof. Jim Davis, Physics, one of 10 principal investigators associated with the CFSMS, uses NMR techniques to study the structure and dynamics of peptides in membranes, which will help develop structural tools for membrane proteins.

"The unique thing about this (NMR) facility is the wide range of applications we can handle," says Davis. "You name it, we can do it."

More information about the CFSMS and the NMR facility is available on the following Web sites: <http://fsm.uoguelph.ca> and <http://nmr.uoguelph.ca>.

BY STACEY CURRY GUNN

Guelph Receives Grant From HP/Intel

Workstations will allow

researchers to boost limits

of computing applications

U OF G is one of four Canadian universities and one of 40 universities worldwide selected to receive part of a \$2.5-million grant from Hewlett-Packard Company and Intel Corporation.

U of G will receive two HP/Intel Itanium Processor Family (IPF) workstation products, which will allow the University to enhance its existing computing systems.

"It includes 64-bit architecture that will allow scientists to run more complex computations," says Prof. Deborah Stacey, assistant vice-president (research infrastructure programs). Stacey, a faculty member in the Department of Computing and Information Science, applied for the grant and will oversee the amalgamation of the new and current computer equipment. The new workstation will be integrated into the SHARC-NET project, a high-performance computing consortium involving the universities of Guelph, McMaster, Western, Wilfrid Laurier and Windsor, as well as Fanshawe and Sheridan colleges. It will also complement the University's V2500 supercomputer.

Prof. Alan Wildeman, vice-president (research), says U of G is honoured to be one of the four Canadian recipients of the new grant.

"The new Itanium workstations will benefit our students, professors and other researchers by allowing them to push the limits of computing applications," he says. "Computing capacity is increasingly a cornerstone of research."

Provost Alastair Summerlee adds that the HP/Intel grant builds on Guelph's long-standing and excellent relationship with the computer company, which began in 1980 when the University acquired a centralized HP computer system. HP Canada also provided the vast majority of the \$4.7 million in matching funding for the addition to the Thornbrough Building, has contributed more than \$11 million to the University's campaign, and made a significant donation to the University's \$@GE program, a children's camp that promotes science.

"We have continued a relationship with HP because we have common goals emphasizing the importance of technology in our comprehensive university," Summerlee says. "We look forward to continuing this partnership and welcome the opportunity to form a similar relationship with Intel."

BY LORI BONA HUNT

Cyclists, Hikers Equally Tough on Environment, Botanists Find

Behaviour and attitude are vitally important for trail preservation

SOME SAY the deep treads of spinning mountain bike tires tear up more dirt than a simple pair of hiking boots does. But U of G research has shown that biking isn't necessarily harder on the environment than hiking is.

Prof. Richard Reader, Botany, and graduate student Eden Thurston have found that with average amounts of activity, cycling and hiking have similar effects. Their study is one of only a few in North America to examine this facet of trail use; most previous studies have focused on behavioural aspects.

"Very little research has been done on the physical effects of mountain biking on the environment," says Reader. "But we've found that hikers have the same im-

pact as bikers do, regardless of the number of trips along the path."

Environmental damage to areas along recreational trails from everyday use is a common problem faced by managers of natural areas. When trails start showing signs of stress and degradation, sharing the trail puts some hikers and mountain bikers at odds.

In areas with established trail systems, a common problem reported by managers is the tendency of users to stray away from the trails and create their own paths. This causes trail widening, soil exposure and damage to the vegetation. But it isn't clear whether hiking or biking is more stressful.

For the study, cyclists and hikers were asked to walk or ride down a

four-metre-long track with no existing trail in Ontario's Boyne Valley Provincial Park. The impact on vegetation cover and soil exposure was measured at five different intensities of bike and foot traffic: zero, 25, 75, 200 and 500 passes (trips along a specific trail).

According to the data, the first 25 passes were the most — and equally — damaging for both hiking and cycling, greatly reducing vegetation cover and exposing the soil. But despite the damage done by the 500-pass trials, the recovery rate one year later was almost 100 per cent.

Reader says this means the effects are reversible if management decisions are made that allow the trails to rest and recover. But he cautions that behaviour and attitude are still vi-

tally important for trail preservation.

"In our trial, the behaviour of participants was controlled to simulate the average user, so when the same responsible behaviour is followed, there is no difference in impact. But if hikers and cyclists don't exhibit the same behaviour, then these rules don't apply."

Increased signs of wear and tear such as trail widening can be attributed in many cases to the fact that there are simply more users now, says Reader.

This research was sponsored by the Natural Sciences and Engineering Research Council, Ontario Parks and Mountain Equipment Co-op.

BY JENNY DOBBIN
SPARK PROGRAM

Brain Scans of Twins Hold Clues to Heredity

Even people who appear to be mirror images of each other have brains that look quite different

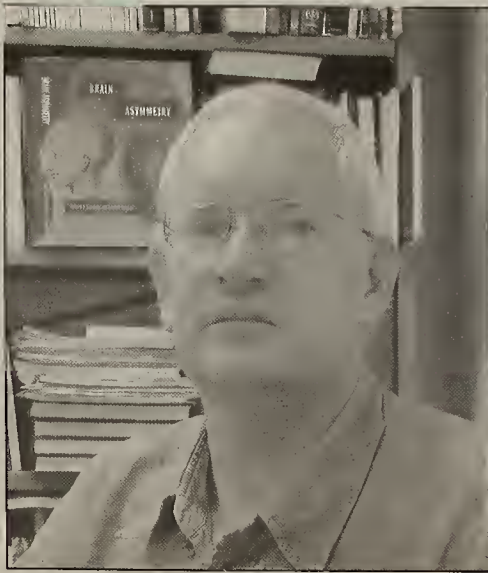
IN HIS SMALL BASEMENT LAB in the MacKinnon Building, Prof. Michael Peters is sitting on an academic gold mine.

His fortune is unbeknown to most of the University community and even his colleagues in the Department of Psychology. Maybe that's a good thing. For this is a gold mine of information, the kind of data that would leave many scientists drooling with envy because it may one day help answer some of life's great unknowns. It's a gold mine in the form of human brains.

Peters is studying images from a large collection of brain scans of identical and fraternal twins. The images were obtained by nuclear magnetic resonance imaging and will allow answers to some of the questions raised in the never-ending debate on heredity versus environment.

"We have complete sets of scans of more than 200 brains stored right here in our computers," says Peters, who, for the past four years, has been collaborating with colleagues in Germany, most notably Lutz Jancke at the University of Magdeburg. "This is the kind of research that people don't know psychologists are doing, and the analyses for this particular twin study are done in our lab here in Guelph."

The human brain is a fascinating thing to study in and of itself, but



Prof. Michael Peters will present his research to the Society for Neuroscience in November.
PHOTO BY DEAN PALMER/THE SCENARIO

brain scans from identical twins are even more intriguing. They allow researchers to study the similarities and differences of the brains of two people who share identical sets of genes. But as Peters has found in his latest research, even two people who

appear to be mirror images of each other have brains that look quite different.

"It's fascinating because we're talking about two people who appear to have identical faces and all of their physical attributes are very similar,"

says Peters. "And yet, there are differences in their brains that are readily apparent."

For instance, he says, the pattern of the cortical folds in identical twins is by no means identical — although more similar than is the case with non-identical twins.

His current work focuses on the corpus callosum, the thick bundle of axons that connects the left and right brain halves.

"People are always talking about 'the right brain, the left brain,' but the halves have to get their act together to work, and the main way they do this is through the corpus callosum, which is the connecting tract," he says. "It allows the two halves of the brain to communicate with each other."

This fibre bundle lends itself to precise measurement, says Peters. In particular, the researchers are analysing the size and shape of the corpus callosum of identical twins, noting similarities and differences. The degree of similarity is then compared with the degree of similarity of the same measure in non-identical twins and in unrelated control subjects.

"Using a simple measure, the surface area of the mid-line corpus callosum, we find that the correlation of this area between two identical twins is close to .90 (the maximum possible is 1.00), whereas for non-

identical twins, it's close to .50. For unrelated individuals, it is, as one might expect, close to zero."

Peters adds that although his research shows much similarity in identical twins, "one should not forget that even a difference of 10 per cent can amount to a difference in tens of millions of fibres."

He is now concentrating on using software developed in his lab to define subregions of the corpus callosum.

"At this point, it looks as if a meaningful subdivision into seven regions can be made. We want to see whether there are regional differences in heritability for different regions of the brain structure."

He suggests that some parts of the corpus callosum are more "hard-wired" and under direct control of genetic specifications, whereas others are more "plastic" and respond to environmental input. His current work will be presented at the Society for Neuroscience meeting in San Diego, California, in November.

Peters, who has worked in neuroscience since 1969, adds that he is excited by this new line of research.

"My colleagues in Germany have been extremely good to work with. It is an ideal collaboration with a group that has a very high level of expertise."

BY LORI BONA HUNT

Work-Life Stress Up for Women, Men of All Ages

New report compiles most recent national-level statistics, data and research findings related to work and family life in Canada

CANADA'S ever-changing labour force is being asked to be more productive and innovative than ever, increasing work-life stress. But it's not just workers with young families who are feeling the squeeze. A new report from U of G and the Women's Bureau of Human Resources Development Canada says work-life stress is on the rise for women and men of all ages and across the job spectrum.

"Although change has always been with us, seldom has it come at us from so many directions and at such a pace," says Prof. Donna Lero, Family Relations and Applied Nutrition, one of the authors of *The Work-Life Compendium 2001*, published recently by U of G's Centre for Families, Work and Well-Being. Some of the changes fuelling the growing tension, stress and work-life conflict include family changes, more irregular work schedules, population aging, and the drive to be increasingly more competitive, productive and innovative, Lero says.

The compendium is a compilation of the most recent national-level statistics, data and research findings related to work and family life in Canada. Its release coincides with National Family Week being recognized this week across North America. The compendium addresses 10 main areas: the labour force, family profile, income, organizational

change, work structure and work time, child care and caregiving, work-life issues for the employee, work-life issues for the employer, labour legislation, and attitudes and public opinion.

The compendium reports that the number of Canadian women in the workforce increased by more than 100 per cent between 1976 and 2000, from 3.6 million to 7.4 million.

The greatest increase has been among mothers of young children. In 1999, 61 per cent of mothers with a child under age three were in the labour force, up from 28 per cent in 1976, and about 70 per cent of mothers of young children were working full time.

Overall, about half of Canada's labour force has children at home, and about 15 per cent are caring for

aging parents as well as children.

Both men and women are delaying retirement as well, with about 41 per cent of men working beyond age 65, the report says. And the challenges of keeping up with technological changes and increasing workloads while caring for family members leaves many feeling time-crunched on a regular basis.

The report notes that ultimately,

work-family conflict also affects employers in the form of higher absence rates, lower productivity, and recruitment and retention problems. The authors stress that, given predicted labour shortages, Canadian organizations can ill afford to ignore employees' need for better balance.

"Employers who can offer workers flexibility, balance and opportunities for continual learning and development will have a strategic advantage in a tight labour market and will maintain loyalty and commitment from valuable employees," Lero says. "They will also make an important contribution to the well-being of those employees, their families and communities."

Lero developed the compendium with Jennifer Rooney, a doctoral student in psychology and research associate with the Centre for Families, Work and Well-Being, and Karen Johnson of Human Resources Development Canada.

"This is an important way of sharing our growing understanding and appreciation of work-life issues and trends," says Linda Hawkins, executive director of the centre. "Work-life balance is a cross-cutting issue with significant implications for employers and for the economic and social well-being of individuals and families."

BY LORI BONA HUNT

Among the highlights of *The Work-Life Compendium*:

- Dual-earner families remain the dominant family form among two-parent families. Although they accounted for only 36 per cent of two-parent families in 1976, they make up 62 per cent of two-parent families today. On average, women in dual-earner families contribute about 32 per cent of total family income.
- Women and men are delaying marriage and child-bearing, and rates of marriage, birth and divorce fell in the 1990s. In 1997, 31 per cent of first-time mothers were over 30.
- Women are more than twice as likely as men to feel stress trying to blend work and family, although the number of men reporting being severely time-stressed increased by eight per cent between 1992 and 1998.
- Some 55 per cent of workers in a recent national survey described themselves as time-stressed; 46 per cent found "simply keeping up to date" their biggest challenge.
- Long work hours are associated with potential negative health consequences. Health effects of long work hours include twice the odds of experiencing an unhealthy weight gain and of increasing daily smoking and alcohol consumption. Among women, those who increased their

work hours to more than 40 hours a week were twice as likely to experience a major depressive episode. Among men, those in high-strain jobs (characterized by high demands and little control) are 3.3 times more likely to experience significant depression.

- Employees who have difficulty balancing work and home life miss more than twice as many workdays as those who report low to moderate difficulty. Some 32 per cent have turned down promotions because of work-life conflicts. Absences due to personal and family responsibilities are two to three times greater among employees with children.

- Some 83 per cent of medium- and large-sized Canadian companies are reporting shortages of skilled labour, with 93 per cent reporting difficulty finding experienced tradespeople, scientists, engineers and technicians.

- Employers appear to be increasingly more aware of the potential threat of work-life conflict to business issues. A 1999 study of 1,500 employees found that workers whose supervisor supports their desire for a better work-life balance miss half as many workdays and are more satisfied with their jobs.

GETTING BACK TO NORMAL

*"Maybe normal everyday acts of kindness and consideration
will safeguard us against narrow-mindedness and prejudice"*

BY JOAN FLAHERTY

ILLUSTRATION BY SARA TYSON

LIKE MANY NORTH AMERICANS, I've been having some trouble in recent days focusing on my work. I teach communications to business students at Guelph. Every day, I walk into the classroom and discuss with a group of 35 or so students how they can improve their writing and speaking skills.

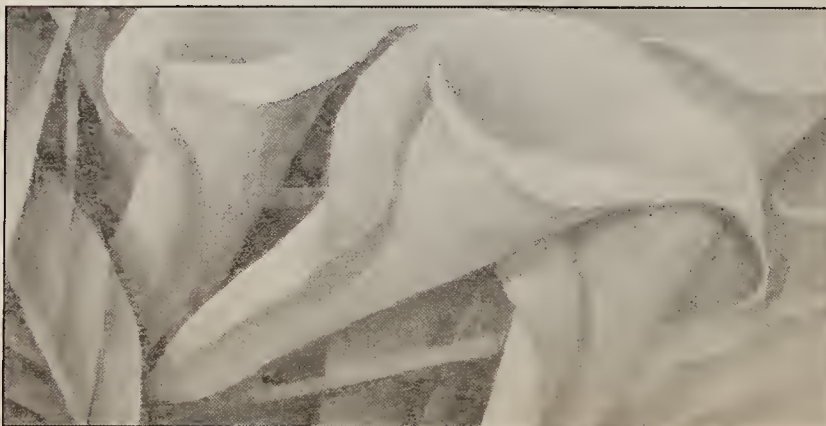
We read articles together. I send them to the library to research information on ethics and behaviour. We discuss the merits of using one organizational approach over another in a business document. Some days, we've spent a quarter of an hour or more considering how a particular turn of phrasing can change the entire meaning of someone's message.

I've always believed this work was important. Until Sept. 11, that is. And then everything changed.

I found out about the bombing of the World Trade Center during a 15-minute class break — a student stopped me in the hallway to tell me about it. I kept interrupting to ask if this was a joke, and then I went immediately to our main office to see people gathered around a television set. Ten minutes of watching horrific images on the TV screen that spoke of lost and irrevocably wounded lives. Ten minutes of witnessing this brutal reality that seemed completely unreal because it has never happened so close to home before. And then I went back to the classroom to discuss how to write a cover letter and a résumé.

I didn't know what else to do.

And so I continued with my day: I finished the class. I discussed assignments with students. I answered my e-mails. I



used the photocopy machine. I did what all the politicians on TV were urging us to do: I tried to return to normalcy — even though normalcy seemed completely trivial and irrelevant. No, that's an understatement. Normalcy was an insult, a grossly insular stupidity.

Grabbing a takeout coffee while children pass out pictures of parents who didn't come home that evening. Sitting in a meeting while rescue workers uncover body parts that no one will be able to identify. Playing the scholar while New York burns.

I didn't want normalcy.

I wanted to help in some direct, physical and immediate way. And I wanted to see everyone else around me doing the same. But how? By and large, we're not firefighters, police officers, military strategists or emergency-room doctors and nurses. And we're not in New York or Washington. We're mostly ordinary people who are horrified by what has happened and who feel deeply frustrated by the limited help we can

give: donating blood and attending prayer vigils.

I was thinking about all these things a couple of days later while I was finishing, by rote, the last of the day's work duties, checking my e-mail. Our school's director had sent out a message inviting everyone to a surprise last-minute birthday celebration for one of our visiting professors. She's far from home, the e-mail read, and this would be a kind gesture toward someone separated by thousands of miles from family and friends. And then it struck me: this was an invitation to normalcy — to get together with friends and colleagues in a show of kindness and good humour and

generosity of spirit.

Even as ordinary people going about our lives every day, maybe we can do something about the brutality that has been inflicted on our American brothers and sisters and that, in different ways, wounds us all. Maybe normal everyday acts of kindness and consideration will safeguard us against the narrow-mindedness and prejudice that started all of this in the first place. Maybe I can listen more closely to students in the classroom, smile more readily at the person behind the counter serving coffee, and attend this last-minute birthday celebration for a colleague I really don't know at all. Maybe I can resolve to make these qualities a part of my everyday normal life.

Maybe normalcy will see us through this after all.

Joan Flaherty is a lecturer in the School of Hotel and Food Administration. This article originally appeared in the Globe and Mail.



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THE BIG PICTURE

OVC grad helps shape future of Ontario agriculture as OMAFRA assistant deputy minister

BY STACY CURRY GUNN

YOU CAN GLIMPSE the future from Deb Stark's office in the glass-and-wood Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) building. A bank of windows provides a fine view of the latest development in U of G's growing Research Park across the street: the construction of a new home for GeoSyntec Consultants International, the U of G spinoff company Gensel and other like-minded enterprises.

It's a fitting viewpoint for Stark, the assistant deputy minister of OMAFRA's research and corporate service division. The changing vista across Stone Road is a sign of the times — times she is helping shape as the provincial government sets its sights on the opportunities and challenges of the emerging life science sector.

And that suits Stark just fine. The University of Guelph graduate says she likes dealing with the big picture — the bigger the better.

"I'm constantly interested in learning something new, in taking different things and seeing how they tie together, and gaining a broader and broader perspective."

She's lived that philosophy for the last two decades as her career has evolved to the point where she now helps guide Ontario's agricultural strategy and manages the partnership contract between the province and U of G.

Those responsibilities "keep me closely linked to the University, that's for sure," she says. And there's another link on a personal level: her husband, Prof. Howard Dobson, is a radiologist at the Ontario Veterinary College.

Stark's route to her senior position with the Ontario government started with a degree in veterinary medicine from OVC in 1982. She worked for five years in a mixed animal practice near Sarnia, then joined OMAFRA in 1987 as a part-time extension veterinarian in dairy and beef. At that time, she considered expanding her skills and knowledge through graduate studies at OVC, but the idea of becoming more specialized lacked appeal.

Instead, Stark enrolled in Wilfrid Laurier University's MBA program and entered the realm of strategic planning and organizational design and behaviour. She completed her degree in 1990, when "all the stars lined up" and her job at OMAFRA became full time.

Two years later, Stark became Ontario's provincial veterinarian and director of veterinary laboratory services. In 1997, she took on the challenge of assistant deputy minister.

These days, her strategic planning expertise is focused on the burgeoning life science, or bioscience, economy. Ontario is home to at least a quarter of Canada's biotechnology industry and is estimated to have the fourth-largest concentration of biotech firms in North America. Expectations are high that advances in genetics and other biological disciplines will stoke the economic furnace of the 21st century.

Stark is helping to define and build agriculture's role in the broad life science equation, both in Ontario and nationally



laboratories. OMAFRA spends another \$11 million maintaining the Kemptville, Alfred and Ridgeway college infrastructure and associated research stations.

OMAFRA and the University are now in the midst of negotiations, "putting commitments on paper," to renew the contract next March.

The OMAFRA funding "is not a grant," Stark stresses. "It's a contract, and we define deliverables. We work together to set priorities, and that's where the money is going. We see the University as a research partner. You help us achieve several goals. When we have some research questions that need answers, we go to the University of Guelph to get those answers."

Those questions and answers lie within the areas of animal, plant and human health; rural communities; environmental management; and food safety.

"Deb brings a genuine commitment to working with the University," says Prof. Alan Wildeman, vice-president (research), who oversees ad-

ministration of the contract on behalf of the University. "She has the best interests of Ontario at heart and wants to find the best way to help the partnership meet the province's needs to have a safe and secure food system, rural economic growth and a sound environment."

Input from industry and stakeholder groups is also solicited in setting research priorities, through the Ontario Agricultural Services Co-ordinating Committee. Industry, via commodity associations, kicks in another \$15 million for research that addresses their needs.

"We have a responsibility as the Ontario government to help industry solve some of their problems," says Stark. "The contract also means that U of G is able to hire researchers and build capacity to go after other government money."

The contract is unique among Ontario universities, which "creates some friction" for other institutions, she says. But the reality is that "it doesn't make sense to have dairy herds in three or four universities."

And one area where Guelph clearly stands alone is its work to make agricultural production more efficient, she says. "That makes our industry more competitive. It's easy to lose that because it's not new, it's not life science. It's that continual improvement a business needs to do if it's going to keep on growing."

Across Stone Road, the construction continues. GeoSyntec and Gensel are scheduled to move in October. The Research Park is now home to some 30 companies and laboratories employing more than 500 people. All told, there are already more than 4,400 jobs in the Guelph area linked to the research and development cluster around U of G, not including direct University employees. And that's just the beginning, says Stark.

"Universities are changing. They've become real players in the research game. They are creating jobs and spinning off new businesses on top of their broad role of building the knowledge base."

Stark, who oversees the ministry's business planning and financial issues, has managed the contract on behalf of the province since 1999. The contract transfers \$50.5 million to the University each year for research programs, OVC and diploma education and the operation of the animal health and food

through her service on the Canadian Agri-Food Research Council.

She says agriculture has been the "forgotten piece" of the life science puzzle and has been overshadowed by the health and environmental sectors. But that's about to change.

"There's a whole new field opening up with huge research implications. It's an exciting place to be. There are huge advantages as we continue to figure out how traditional agricultural products can be modified to get other benefits out of them."

Those other benefits could include biological substitutes for petroleum or plastics or novel health products derived from plants.

But although the scientific discoveries are exciting, transferring new technologies to the field poses a key challenge for Stark and other proponents of an expanded life science economy.

"There's excellent research being done, but how do you move it out of the laboratory and what is the impact of moving it out? There are huge societal risks that we must think about. We can't be growing potatoes for petrochemicals beside the potatoes we eat."

Stark is confident that such issues are surmountable, however. "We'll get there," she says. And Ontario's farmers will be able to take the ball and run with it to the end zone.

"It's the farmers who can gear up and take it to production. We're very diverse in the products we grow already. We've got people out there doing it all. It helps to keep things sustainable."

And the payoff will be stronger rural communities, she says.

Central to OMAFRA's twin objectives of nurturing the life science economy and rural economic development is its contract with U of G.

Stark, who oversees the ministry's business planning and financial issues, has managed the contract on behalf of the province since 1999. The contract transfers \$50.5 million to the University each year for research programs, OVC and diploma education and the operation of the animal health and food



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Sports Hall of Fame Honours Founder

Homecoming celebrates sport, Ontario anniversary

THE MAN who launched the Gryphon Club Hall of Fame was inducted as one of its builders during the annual Homecoming dinner Sept. 28. David Copp, athletics director from 1982 to 2000, led the effort to establish the sports hall of fame, the first at any Ontario university. Since 1984, the Gryphon Club has inducted more than 100 Redmen, Aggies and Gryphons — recognizing individual athlete and team accomplishments since the early years of the University's founding colleges.

Copp was inducted in the builder category for his contributions to the full spectrum of Guelph's athletics program, including intercollegiate and intramural sports.

Athletes honoured this year are Eric Hammond, BA '91, basketball; Villis Ozols, B.Sc. '85, volleyball; Michele (Timer) Iovanovich, B.Sc.(H.K.) '91; and Mitch Mason, BA '85, wrestling.

In addition, an Award of Merit was presented posthumously to Prof. John Powell, creator of

Guelph's School of Human Kinetics (later the School of Human Biology), who was also known internationally for his contributions to the Olympics movement.

At Saturday's Homecoming football game, the Gryphons were defeated by the Windsor Lancers and dropped to a 2-3 record for the season. You'll find details of the game on the Gryphon football Web site, which can be accessed through www.uoguelph.ca/~athletic.

The success of Guelph's sports teams and athletes has been recorded through the years by student writers for various campus newspapers — the last 50 years by the *Ontarian*. The popular student paper held an open house in its University Centre offices after the Homecoming football game Sept. 29. Current staff, alumni readers and former *Ontarian* writers gathered to revisit historical issues of the paper and share memories.

A special 50th-anniversary edition of the *Ontarian* will be published Oct. 4.

Town Hall Meeting

Continued from page 1

"Once completed and adopted by Board of Governors, the revised campus master plan will guide physical development at the University and shape the composition of future buildings and landscapes," says Nancy Sullivan, vice-president (finance and administration).

"This is why participation by our faculty, staff and students is an integral part of the process. We urge eve-

ryone to attend this important session and to provide us with their thoughts about the future of the University of Guelph campus."

In an upcoming issue of *@Guelph*, a campus master plan issue sheet will be distributed to further encourage members of the University community to submit their ideas about the campus's future.

Human-Equine Bond Studied

Researchers examine role of horses in alleviating suffering of trauma victims



Prof. Cindy Adams, left, and graduate student Janet Yorke believe the human-equine bond can help trauma victims overcome physical and emotional challenges.

PHOTO BY MARTIN SCHWALBE

THE BOND between female horseback riders and their animals may be strong enough to help the women recover from extreme fear and anxiety, say U of G researchers.

Prof. Cindy Adams, Population Medicine, is working with graduate student Janet Yorke to examine the "therapeutic alliance" of the human-equine bond. They believe this attachment may help alleviate the suffering of women who have experienced traumatic physiological or psychological stress.

"We know that fear and anxiety can be transferred to other aspects of a person's life, such as riding," says Yorke. "I think people could really be reached through the use of horses in therapy."

The researchers decided to focus on women after a recent finding by the Canadian Equestrian Foundation that women make up the fastest-growing segment of the companion horse owner population. In fact, 75 per cent of new horse owners are women, most of them baby boomers, Yorke says.

She and Adams are interviewing 50 female riders who say horseback riding influenced their recovery from traumatic situations such as car accidents, illness or physical or sexual abuse. They will look at what experiences interviewees identify as traumatic and how their relationship with a horse helped or didn't help them cope.

The researchers hope to discover if "getting back in the saddle" affects the emotional and psychological recovery of riders experiencing post-traumatic stress.

Survey questions will be developed in collaboration with a multidisciplinary team of professionals from sociology, psychology, veterinary medicine and epidemiology. The researchers will identify themes and patterns through standardized data analysis, which they hope will

lead to more quantitative investigation such as videotaping riders through their recovery period and researching the demographics of respondents.

Yorke says the research will measure the effects of the therapeutic alliance according to the amount of time a rider spends with a horse and the nature of their riding.

"The intensity and proximity of the relationship before and after a traumatic situation are very important factors," she says. "There's a difference between endurance riders and those who ride more casually for pleasure."

Yorke has more than 30 years of social work experience and has volunteered for a therapeutic riding program for children with physical disabilities. She observed physiological and emotional benefits such as improved fine and gross motor skills and reduced tension in the program's participants.

"I hope people will begin to realize the value of therapeutic riding programs for those who have been through trauma," she says.

BY KATIE MEYER
SPARK PROGRAM

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Singer Gets a Sound Education

Award-winning soprano balances musical studies with English and history

THIRD-YEAR U of G arts student Sarah Kramer took some major steps forward in her singing career this summer with a first-place finish at the provincial Kiwanis music festival in Ottawa and a strong performance at the nationals in Calgary.

"I was really excited and shocked and very pleased," she says of the win at the provincials. "It's a great compliment because some of the people who were performing are really fine musicians. It's nice to be considered one of the better singers. It helps advance my career and it's probably the most exciting thing that's ever happened to me."

Twenty-year-old Kramer performed a Bach aria, a Mozart aria and a Leonard Bernstein piece to win the championship in a field of 32 singers aged 18 to 33. She and her



Sarah Kramer

competitors were the winners of their local Kiwanis music festivals.

Kramer travelled to Calgary in August for the national competition.

The youngest in a group of 11, she didn't win but was happy with her performance.

"I sang really well. It was great. There were some amazing people there. The adjudicator was really encouraging; he said I had a beautiful voice."

Kramer is a "coloratura" soprano, which means her voice is very light, flexible and agile, well suited to singing complex passages quickly.

Music has always been part of her life. Both her parents — Theresa Thibodeau, a vocal instructor in the School of Fine Art and Music, and Marcus Kramer — are singers.

"I've been very fortunate," says Sarah Kramer, explaining that her musical upbringing laid the groundwork for the in-depth training she is receiving from Patricia Harton-McCord at U of G and from voice

coach Catherine Robbin. "I've been able to really develop deeply and learn amazing things with Patricia," Kramer says.

Music is actually her minor; her major is English. Her parents, she says, believed it was important for her to have a broad academic background.

"Studying English and history is important to expand my horizons," she says. "Politics affect the world of the arts," so it helps to understand the context and history behind a piece of music. "If you don't apply the words properly, it does a disservice to the music."

Kramer's musical interests span French comic opera and French, German and Italian art song as well as the baroque genre. Art song is a musical form "where the poetic content is of great importance," in con-

trast to an opera, where the same phrase is often repeated over and over.

At U of G, Kramer's talents have been recognized with the Alice Munn Entrance Scholarship and this year with the Dorothy Collins Scholarship.

Once she completes her degree, she plans to study music exclusively in Toronto, Montreal or Europe. In the meantime, she will continue to grow as part of the local music scene, performing on campus in the Early Music Ensemble and off campus with the Kitchener-Waterloo Symphony and K-W Philharmonic.

"It's great to live in a community like Guelph," she says. "I don't have to wait until I graduate with a music degree—I get to get out and taste the stuff now."

BY STACEY CURRY GUNN

TSS Orientation Event Welcomes New Faculty

Ongoing luncheon series explores topics of instructional interest

CLOSE TO 40 FACULTY turned out for Teaching Support Services' annual three-day orientation event for new and recently new faculty and teaching staff.

Held in late August as part of the University's new-faculty program, the orientation gave participants an opportunity to meet faculty, students, staff and administrators and become familiar with U of G policies and procedures. It also provided information about research and teaching supports on campus and offered teaching tips for the classroom.

Highlights of the program included student and faculty panels, a resource fair and reception and an

instructional showcase of teaching approaches presented by award-winning Guelph faculty.

Jeanette Dayman, who coordinates the new-faculty program in TSS, says feedback from participants was positive. In one written evaluation, a new faculty member described the orientation as "a fabulous introduction to the way to do things round here. It was great to find out about the range of information and support available to new faculty and to meet people from across the campus. (It) really helped in developing a sense of belonging to U of G as a whole."

Dayman says the success of the

program reflects the ongoing support provided by faculty, professional and support staff, students and administrative offices from across campus. "TSS thanks everyone who supported the orientation, both during the program and behind the scenes," she says.

The University's new-faculty program continues in the fall and winter semesters with a luncheon series. These theme-based sessions give instructors a chance to reconnect throughout the academic year on topics of instructional interest, Dayman says. Luncheons held to date this semester have focused on the U of G Library's services and re-

sources and on collecting and using mid-semester feedback. Upcoming sessions will explore learning styles Oct. 25 and learner-centredness Nov. 14 and will wrap up Dec. 11 with end-of-semester reflections and a social. Registration is required, ei-

ther online or through Dayman.

For more information about the new-faculty program, visit the Web site www.tss.uoguelph.ca/newfac/newfaculty.html or call Dayman at Ext. 2468 or TSS director Prof. Julia Christensen Hughes at Ext. 6938.

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SENATE REPORT

Continued from page 2

UPDATE ON ENROLMENT AND REGISTRATION

Prof. Maureen Mancuso, associate vice-president (academic), reported on the interim registration numbers for new students at Guelph. She emphasized that the numbers were still tentative and would remain provisional until reporting day in November.

Mancuso said the University set revised targets for new semester-one admission for fall 2001 that were lower than the previous year's. She said she was pleased to report that overall admissions were lower than in 2000, but that the University had slightly exceeded the revised target. It is likely that the University will be marginally above reporting-day target by about 70 undergraduates. Essentially, the quality of students remains unchanged compared with last year, she said. Within these figures is a shift towards admissions in the BA program as a result of a higher-than-anticipated yield rate in arts programs.

Mancuso also noted that enrolment in the Access to Opportunities Program is up by 50 per cent and graduate student enrolment is up slightly.

This fall, the University took steps to eliminate the physical registration process, Mancuso added. New students were encouraged to register in advance over the Web to avoid the long lineups of previous years. Students were also given registration packages with their course schedules, ID cards, campus mail-

box keys and other important information when checking into their campus residence rooms or through the Office of First-Year Studies. Despite these registration improvements for new students, there were still some lineups for returning students, particularly for those requiring signed paperwork before registering, said Mancuso. The University hopes to remedy this situation in future, she said.

The University is also exploring the possibility of eliminating campus mailboxes and communicating with students exclusively through electronic mail, as every U of G student has a campus e-mail address.

Another major improvement being considered is the introduction of electronic payment of fees for all students. Mancuso said U of G will review this option in the weeks ahead.

NEW RESIDENCE

Provost Alastair Summerlee said the opening of the University's first new residence in almost 30 years — the East Village 660-bed townhouse complex for upper-year students — added a special dimension to the start-up of fall activities. The University had hoped the residence would be completed by the beginning of classes, he said, but it was not, and 76 students had to be accommodated in nearby hotels at U of G's expense. He reported that as of Sept. 25, only 12 students remained in hotels, and it was expected they would be in residence by Sept. 29.

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TOWARD 2010

Continued from page 2

Student space needs: Specific requirements must be addressed, including new common, social and dining/meal space, individual and collaborative study space, additional residential accommodation and places for student organizations.

Campus landscape: The green character of the campus, an emphasis on high-quality pedestrian environments and special places such as Johnston Green have been identified as important features to be retained and enhanced by the plan.

State of the campus: The condition of campus buildings and landscapes varies considerably, and some may be obsolete.

Heritage: U of G's positive image and cultural qualities should be maintained and incorporated into the plan.

Safety: New campus and urban development has increased traffic to and through the University. Personal security should be considered and be resolved where possible through environmental design.

Flow: Movement systems should respond to new needs and building programs and to issues of human comfort, walking distances, major routes, personal safety and barrier-free access.

Environment: Sustainable development and environmental stewardship should be incorporated into any plans for physical development and management.

Identity: The unique character of the campus should be maintained and enhanced by taking into account critical design features such as identification, public access points, vistas, nodes, links, circulation, common spaces, rest areas and way-finding systems.

Context: The relationship of the core academic area to the related University lands and the surrounding community should be studied to assure sensitive, opportune and appropriate development.

Change: The campus master plan will allow for future change, both the expected expansions and opportunities that may arise.

This list is by no means exhaustive. All members of the University community are invited to get involved in the planning process to elaborate on these issues, raise other concerns and offer suggestions on how to improve the campus. Submissions can be made to Taylor at taylor@pr.uoguelph.ca.

The next "Toward 2010" column will focus on the University's efforts in the area of faculty and staff recruitment and retention.

CLASSIFIEDS

FOR SALE

Sewing machine; two-piece wall unit, includes TV and bar unit, Grace, Ext. 3901 or 766-0473 evenings.

Laptop modem: 56K 3Com Megahertz, 56K Global CSM cellular model, works well, fully supported by Windows, 766-1353 or mmcculla@uoguelph.ca.

Solid pine twin bunk beds with storage drawers and mattresses, desk with hutch/bookshelf and chair, night table, dresser, Pat, Ext. 2865.

1990 Nissan King Cab, 4x2, five-speed, black and silver with cap, AM/FM/cassette, reliable, 139,000 kilometres, leave message at 362-9289.

1962 MG Midget, tan, black interior, runs well, 44,000 miles, has never seen a winter, send e-mail to jwstewar@uoguelph.ca.

1993 Mercury Grand Marquis LS, navy, loaded, hitch, 180,000 km, 822-0973.

1991 Aerostar extended, 3.0 litre, seven passengers, 180,000 km, good condition, sell certified or as is, 787-2797 or wfung@uoguelph.ca.

Double sofa bed, deluxe food dehydrator, Delta 10-inch table saw, all used once; NEC Versa LX Pentium 2 notebook computer, 837-1594 or dmohan@arts.uoguelph.ca.

Wooden table and four chairs; woman's faux fur coat, size 14/16; ghetto blaster with CD, cassette and AM/FM radio, needs some repair; black stenographer's chair; two-piece luggage; brown velvet sofa bed; standing floor lamp, 822-0786.

Two tandem bicycles; Cannondale single-frame road bicycle with aero bars; Jack Taylor touring bicycle, Ext. 3721, 837-1732 or laidlawm@uoguelph.ca.

Kenmore heavy-duty dryer and Maytag washer, good condition; pullout couch, like new; L-shaped beige couch, two pieces; three lawn mowers; two pine tables; double bed, frame wooden box with slats; wheelbarrow, Roto-Tiller, Weed Eater, all in good condition, Ext. 8793 or 846-9244.

Canon inkjet printer BJC-210, rarely used, colour cartridge; Roland EP-5 digital piano, 61 keys, excellent play and sound; 1994 Ford Escort wagon, remote starter, roof rack, runs well, passed e-test, 787-2797 or wfung@uoguelph.ca.

Membership to Exclusively Women's Fitness Centre in Stone Road Mall, runs until Dec. 31, unlimited access to all services, Richelle, 837-1289.

Chesterfield and matching chair, light cream colour with floral stripe pattern, Scotchgarded, rarely used, Ext. 4900.

Fresh honey, excellent colour and flavour, Ext. 4947 or leave message at 519-638-2391.

Three-drawer office desk, dark grey; three-cushion chesterfield, beige and brown; chrome TV stand; chrome kitchen table and chairs; coffee table, Ext. 3561 or 821-5412 evenings.

Philshave electric shaver; chandelier, old bronze finish; oval frosted white glass drop lights; Electrohome 501 air conditioner; Prince CDs; student chair; country-style calendar holder; Encyclopedia Britannica Book of the Year from 1959 to 1988; white mini-blinds for large window; fabric Levolor vertical blinds, honey-gold colour; peach curtains; drapery rod with nylon slides, 767-0574.

Textbooks: *The Cell* by Cooper; *Ecology* by Begon, Harper, Townsend; *Calculus* by Thomas and Finney; *Key of Organisms in the Speed River* by Mackie; *Microbiology* by Black; free dresser and microwave to be picked up, send e-mail to mayme_00@yahoo.ca.

Four-bedroom older home suitable for small family, adjacent to University campus, fenced yard, appliances, yearly lease, \$1,500 a month plus utilities, 767-5003 or redweb@uoguelph.ca.

Room in shared house, 15-minute walk to campus, located behind Stone Road Mall, female preferred, Jaimee or Heather, 822-1345 or jmariani@uoguelph.ca.

Room in family home, south end, on bus route, non-smoker preferred, \$350 a month inclusive, Rose or Brad, 824-0235.

Bachelor apartment, close to campus, \$425 a month, Pat, 821-4992.

Two-bedroom apartment in century stone house, private one-acre setting, appliances, parking, \$995 a month, 824-1773.

WANTED

Person wanted for part-time farm duties, milking experience a must, located close to town, 822-3147 or 822-3148.

Small good-quality freezer, 767-6614 evenings.

Certified car for under \$1,500 for local driving, 822-0786.

Four-bedroom house or townhouse for sabbatical professor and family from January 2002 to December 2003, David, Ext. 2747.

Parking spot close to Rodgers and Edinburgh Road, reasonable rate, Matt, leave message at 836-6927 or send e-mail to matcoombs@hotmail.com.

Computer desk in good condition, 835-2843 or zzhang@uoguelph.ca.

Four-bedroom home in Guelph from January to August 2002 in exchange for five-bedroom home in Alberta while husband completes degree at U of G, 403-556-2088 or bdowell@mountainview.ab.ca.

Three tickets for College of Arts fall convocation, Oct. 16, send e-mail to megan_cameron@yahoo.ca.

AVAILABLE

Certified arborist for removal and pruning of trees, three years' experience, Chris, 821-1427 or bennett@uoguelph.ca.

Ride from Toronto to Guelph, leaving Toronto at 7:15 a.m. and returning at 12:30 p.m. Monday, Wednesday and Friday, Tony, 416-588-0791.

Hair weaves, leave message at 767-2557.

LOST

Woman's diamond solitaire ring, white-gold band, lost around Aug. 31, reward, 824-0893.

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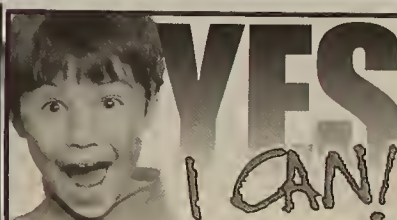
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New members are welcome. The entrée program begins as soon as the membership card is issued. Application forms are available at the bar.

ARBORETUM

Interpretive horticulturist Henry Kock offers a shrub identification course Oct. 19 from 9 a.m. to 4 p.m. Cost is \$35. Registration and payment are required by Oct. 5. On Oct. 22 at 1:30 p.m., Kock leads a walk focusing on the "World of Trees." Cost is \$15. Register by Oct. 8. Kock also presents a workshop on tree identification Oct. 25 or 26 from 9 a.m. to 4 p.m. Cost is \$35. Register by Oct. 11. Call Ext. 4110.

Mary Ellen Hougham hosts "Our Sacred Earth: Spirituality and Art Retreat" Oct. 21 from 9:30 a.m. to 12:30 p.m. Cost is \$25. Registration and payment are due Oct. 5.

Naturalist Chris Earley leads a workshop on winter birds Oct. 24 from 9 a.m. to 4 p.m. Cost is \$45. Registration and payment are required by Oct. 10.

ART CENTRE

Judith Nasby, director of the Macdonald Stewart Art Centre, will give a gallery talk on the exhibit "Inuit Art 1950-2000" Oct. 9 at 11 a.m. at the centre.

The art centre hosts an opening reception for the exhibition "Carolyn Riddell: Carrying Place" Oct. 11 at 7:30 p.m. Riddell will give an artist's talk Oct. 16 at noon.

The art centre's annual "Framed" exhibition, featuring artworks by 40 prominent artists, continues until Nov. 10, when the works will be auctioned off. Tickets for the auction party are \$35 and are available at the art centre info desk.

Martha Kelleher, assistant curator for European art at the Art Gallery of Ontario, will give a talk on the AGO touring exhibition "Antiquity Revisited" Oct. 15 at 2:30 p.m. The show opens at the art centre Nov. 22.

CONFERENCE

The rural studies PhD program holds its second annual conference Oct. 12 from 8:30 a.m. to 5 p.m. at the Cutten Club. This year's theme is "In Search of . . . Sustainability, Rurality and Community." Keynote speaker is University of Toronto geographer Michael Bunce. The conference is free with pre-registration. To pre-register, send e-mail to Lee-Anne Milburn at lmilburn@uoguelph.ca by Oct. 5 at 4:30 p.m. Registration at the door is \$10 for students and \$20 for others.

CONCERTS

The Thursday noon-hour concert series continues Oct. 4 with the Musicians in Ordinary featuring soprano Hallie Fishel and lutenist John Edwards. On Oct. 11, guitarist Ivan Zilman and flutist Margot Rydall perform works by Bach, De

Falla and Debussy. On Oct. 18, a vocal recital features soprano Lita Classen and pianist Allan Behan. The concerts are held in MacKinnon 107.

NOTICES

U of G continues to offer employees the opportunity to contribute to the Canada Savings Plan through automatic payroll deduction. Application forms are now available and must be completed and returned to Human Resources by Oct. 22. A minimum contribution of \$4 per pay is required, and deductions will begin with the Dec. 6 pay. For more information, call Susan Thompson at Ext. 6148.

Human Resources is again offering a wide variety of faculty and staff development opportunities this semester. They include computer and Web-related courses, work-safety sessions and personal development workshops such as "Switch on Your Brain" and "Refining Your Interpersonal Skills." A complete list of offerings has been distributed across campus and is also available on the Web at www.uoguelph.ca/HR/training/index. Registration is on a first-come, first-served basis through telephone registration only, beginning Oct. 4 at 8:30 a.m.

The Laurentian chapter of the Society for Environmental Toxicology and Chemistry presents Mark Goldberg of GlobalTox discussing his involvement in the Eastview landfill evaluation at a dinner meeting Oct. 11 from 6:30 to 9 p.m. at the Shakespeare Arms. Tickets are \$12 for members and \$14 for non-members. RSVP by Oct. 9 to Ext. 2426 or lvander@rs.uoguelph.ca.

The Stress Management and High Performance Clinic is offering a class on relaxation and stress management skills beginning Oct. 9 at noon in UC 103. Cost is \$40 for U of G students, \$60 for UGSA members and \$120 for others. For more information, call Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

The National Institute of Nutrition will hold a competition for a post-doctoral fellowship award to begin July 2002. Guidelines for the program are available from the Web site www.nin.ca. The deadline for applications is Nov. 1.

"Breast of Canada," a 2002 calendar supporting breast health and breast cancer research, has been produced by U of G graduate Sue Richards, founder of the local Art Jam project. The calendar features photos of Guelph-area women by Melanie Gillis and is available at various local retail outlets, including Macondo Books, Wild Rose, the Stone Store and the Bookshelf.

The International Development Research Centre offers the Bentley Fellowship, a \$20,000 award for

Canadian or developing-country students or researchers with a university degree in agriculture, forestry or biology who wish to undertake post-graduate applied on-farm research in a developing country with co-operating farmers. For details, visit the Web site www.idrc.ca/awards/cbentfin.html.

Saturn Canada is offering five \$1,500 scholarships to female Canadian post-secondary students who demonstrate outstanding achievements. Applicants must submit a 500-word essay. Application forms are available from student financial aid offices or at www.saturncanada.com. Submission deadline is Oct. 29.

Rev. Lucy Reid of U of G's Multi-Faith Resource Centre is offering a one-day retreat focusing on wellness and spirituality Oct. 20 at Speedside United Church. The day will include meditation, gentle yoga, journaling and prayer. Cost is \$20. Call Ext. 2390 to register.

The Academic Relations Unit of the Canadian High Commission in London, England, maintains a list of visiting Canadian academics who are willing to take part in conferences and seminars or give lectures at British universities in the various fields of Canadian studies. Anyone who plans to visit the United Kingdom during the 2001/2002 academic year and would like to be added to the list should contact Vivien Hughes at vivien.hughes@dfait-maeci.gc.ca or fax to +44 20 7258 6476.

The Society for the Interdisciplinary Study of Social Imagery is calling for papers for its 12th annual conference, to be held Feb. 28 to March 2, 2002, in Colorado Springs. This year's theme is "The Image of the Outsider in Literature, Media and Society." A one-page abstract or panel proposal with abstracts must be submitted by Dec. 3. Fax to 719-549-2705 or e-mail to outsider@uscolo.edu. For more information, contact Will Wright at 719-549-2538 or wright@uscolo.edu.

SEMINARS

The fall biochemistry seminar series kicks off Oct. 3 with chemist Michael Palmer of the University of Waterloo discussing "Structure and Function of Bacterial Pore-Forming Toxins" and continues Oct. 18 with Prof. Brad Hanna, Biomedical Sciences, explaining "Ion Channel Diseases of Domestic Animals." The seminars begin at noon in MacNaughton 222.

The Department of Chemistry and Biochemistry presents Jean Lessard of Sherbrooke University considering "The Electrocatalytic Hydrogenation of Organic Compounds: Synthetic and Mechanistic Aspects" Oct. 4 at 3:15 p.m. in MacNaughton 222.

The Department of Microbiology presents Prof. Cecil Forsberg dis-

cussing "The 'Enviropig': A Snapshot of the Benefit of Microbial Genes to Animal Agriculture" Oct. 4 at 2 p.m. in OVC 1714.

"On Intermediate Measures of Inequality" is the focus of Buhong Zheng of the University of Colorado at Denver in the Department of Economics seminar series Oct. 5. On Oct. 12, Shin'ichi Hirota of Waseda University considers "Stock Market Experiments." Beverly Lapham of Queen's University discusses "Real Exchange Rate Fluctuations and the Dynamics of Retail Trade Industries on the U.S.-Canada Border" Oct. 19. The seminars begin at 3:30 p.m. in MacKinnon 237.

Next up in the Department of Physics seminar series are Alan Denton of North Dakota State University discussing "Charged Macromolecules: From Interactions to Phase Transitions" Oct. 9 and Prof. John Dutcher, Physics, Oct. 16. The seminars are at 4 p.m. in MacNaughton 113.

The Axelrod Institute of Ichthyology's seminar series features PhD student Ken Oakes, Zoology, discussing "Oxidative Stress in Fish Exposed to Industrial Effluents" Oct. 10 at 1:30 p.m. in Axelrod 168. On Oct. 16, post-doc Ron Griffiths, Zoology, considers "Hot and Cold Lampreys" at 12:30 p.m. in Axelrod 168.

"A Closer Look at Core Oligosaccharide in *E. coli* and *Salmonella* spp." is the focus of graduate student Natalia Kaniuk in the Department of Microbiology graduate student seminar Oct. 12 at noon in Food Science 128.

TEACHING SUPPORT

Teaching Support Services presents a learning technologies Design Café focusing on OAC's World of Work skills development program Oct. 5 from 11:30 a.m. to 1:30 p.m. in the Group Viewing Room in the McLaughlin Library. Register online at www.tss.uoguelph.ca/scripts/register/main.cfm.

TSS's fall workshop series for campus instructors continues with "Multimedia for Teaching" Oct. 10, "Teaching With PowerPoint: The Basics" Oct. 11, "WebCT 3.5: Hands-on for First-Time Users" Oct. 16, "Designing for the Web: Good Practices" Oct. 19, "Burning CD-ROMs" Oct. 24, "Teaching With PowerPoint: Advanced" Oct. 25 and "HTML II: Creating a Course Web Site" Oct. 29. Detailed descriptions are available on the Web at www.tss.uoguelph.ca. Online registration is required.

THESIS DEFENCES

The final examination of Rachael Woram, an M.Sc. candidate in the Department of Zoology, is Oct. 4 at 2 p.m. in Axelrod 265A. The thesis is

"Construction of a Genetic Linkage Map for Arctic Char (*Salvelinus alpinus*) and Comparative Mapping With Atlantic Salmon, Brown Trout and Rainbow Trout." The adviser is Prof. Roy Danzmann.

The final examination of PhD candidate Ingrid Marchand, Human Biology and Nutritional Sciences, is Oct. 12 at 1 p.m. in Animal Science and Nutrition 336. The thesis is "A Quantitative Analysis of the Subcellular Distribution of Glycogen in Human Skeletal Muscle." The adviser is Prof. Terry Graham.

The final examination of Deepananda Herath, a PhD candidate in the Department of Agricultural Economics and Business, is Oct. 12 at 1 p.m. in MacLachlan 107. The thesis is "An Economic Analysis of Structural Changes in the Sri Lankan Tea Industry." The adviser is Prof. Alfons Weersink.

COMMUNITY EVENTS

The 16th annual Guelph Studio Tour, featuring the work of 31 artists located in and around downtown Guelph, runs Oct. 12 to 14. For more information, visit the Web site www.guelphstudiotour.ca.

The Guelph Arts Festival, a weekend of visual arts, poetry, dance, music, media arts and children's workshops, runs Oct. 12 to 14. For details, visit the Web site www.art-in-guelph.com.

The Elora Festival Singers present a "Choral Harvest: Music and Readings for Thanksgiving" Oct. 6 at 8 p.m. at St. John's Church in Elora. The performance will feature a variety of inspirational pieces accompanied by organist Michael Bloss and readings by actor Colin Fox. A reception with the artists will follow. For tickets, call 846-9694. For more details, visit the Web site www.elorafestivalingers.org.

The Guelph Spring Festival will launch its Prelude concert series with a performance by pianist Gila Goldstein Oct. 6 at 8 p.m. at the new Guelph Youth Music Centre, 75 Cardigan St. She will perform works by Bach, David Ben-Haim, Schumann and Alberto Ginastera. Tickets are available at the door or from the River Run Centre box office at 763-3000.

The Royal City Quilters Guild meets Oct. 9 at 7:30 p.m. at Westwood United Church on Willow Road. For more information, call Lisa Fletcher at 763-4668.

U.S. bishop John Spong, author of *Rescuing the Bible From Fundamentalism and Why Christianity Must Change or Die*, will speak Oct. 6 at 8 p.m. at St. George's Anglican Church, 99 Woolwich St. Tickets are available at the Bookshelf or at the door.



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Physicist Wins Polanyi Prize

Award cites innovative work in early career



Prof. Carl Svensson

FOR THE SECOND TIME in recent years, a new faculty member in the Department of Physics has won a prestigious John Charles Polanyi Prize.

Prof. Carl Svensson, who joined U of G Jan. 1, is one of five Ontario recipients of the annual prize. Worth \$15,000, it recognizes early but significant and innovative work in the fields of physics, chemistry, physiology or medicine, literature and economics.

"I was thrilled by the announcement," says Svensson. "Prof. Polanyi is one of Ontario's — and Canada's — truly great scientists and individuals. The award is a great honour."

Continued on page 10

Dragon Boat Symbol of Hope, Strength

Breast cancer survivors boost health and self-esteem, raise awareness of the disease

ONE SUNNY AFTERNOON in September, pink carnations floated on the water as dozens of women silently paddled eight brightly painted dragon-shaped boats along Stratford's Avon River. One by one, they glided beneath a bridge, where two performers from the Stratford Festival sang "You'll Never Walk Alone."

It was an unforgettable tribute to women with breast cancer — those who have died and those who survive, and it left not a dry eye in the boat, says Marlene Jofriet, a member of the Guelph and Wellington BreastStrokes Dragon Boat Team.

The Stratford event stands out in her mind and the minds of her teammates because it was the first time they had seen so many breast cancer survivor teams together at one dragon boat festival. In all, there were eight teams from across Ontario, each with at least 22 members.

Dragon boat racing arises from Chinese tradition. Its popularity is surging in North America as more and more communities hold races each year. It's also become a focus for teams of breast cancer survivors who see it as a fun way to achieve better health and self-esteem and to raise awareness about the disease.

"When you get in the boat, again

you are fighting something," says Jofriet. "In some ways, you're defying what's happening. You're like a warrior going to war, and you hear the beating of the drum, the paddles are thrashing the water and the boat is moving, kicking forward."

Jofriet completed radiation therapy last December and joined the group in January, at the insistence of her husband, Jan, University professor emeritus in the School of Engineering. She trained all winter, but suffered a setback in March when she fell and fractured her spine. That didn't stop her from competing when race season arrived three months later, however.

"I was absolutely determined I was getting in that boat," she says. "It was the most delightful moment in my life... it's hard to describe it in words. It was wonderful."

The team's coach, Pat Richards, co-ordinator of U of G's lifestyle and fitness program in the Department of Athletics, says the dragon is a symbol of strength and hope for the team. "The women relate to the dragon in terms of who they are and the challenge they live with. Surviving breast cancer doesn't mean it's over. They are living with it and surviving it all the time."

Continued on page 9



Members of the Guelph and Wellington BreastStrokes Dragon Boat Team train at the Athletics Centre. PHOTO BY MARTIN SCHWALBE

Dairy Industry Leader Is New Associate VP

Core will promote benefits, opportunities created through OMAFRA partnership

JOHAN CORE, former chair of the Dairy Farmers of Ontario (DFO) and former president of the Dairy Farmers of Canada, has been appointed associate vice-president (research, agri-food and partnerships), effective Oct. 9.

Core will be responsible for promoting the benefits and opportunities created through the University's partnership agreement with the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and will play a central role in administering the partnership. His other responsibilities include expanding partnership opportunities in the agri-food sector and strengthening Guelph's leadership position in agri-food research.

"John's strategic thinking, experience and understanding of the agri-food industry on a provincial, national and international basis are exactly what we need to build con-



John Core

sensus in a highly complex agri-food research and development environment," says Prof. Alan Wildeman, vice-president (research). "He is respected by his colleagues and peers, and with his industry and government relations background, he will

bring fresh perspectives to our research enterprise. His appointment follows an extensive search and the review of excellent candidates."

As DFO chair from 1990 until earlier this year, Core was pivotal in connecting dairy farmers' needs with research policies and priorities. During his tenure, he expanded the DFO's yearly investment in dairy research to about \$1 million. Dairy is Ontario's biggest agri-food industry, and the DFO is responsible for marketing \$1.4 billion worth of milk a year from Ontario dairy farmers and representing their interests.

Core also served as president of the Dairy Farmers of Canada from 1999 to 2001, dealing with international trade and supply management issues and working to create national partnerships and promote dairy research.

Core has ties with U of G dating back more than 30 years. He

graduated from OAC with a B.Sc. in agriculture in 1970 and an M.Sc. in 1972. He then worked as a lecturer at Ridgetown College — now part of the University — teaching courses in dairy and beef production, ruminant nutrition, animal evaluation, and leadership and meeting organization. He later became the senior manager of Ridgetown's dairy and beef herds and provided dairy and beef extension consultation to farm clients.

Wildeman expresses gratitude to members of the associate VP search committee for their work: acting CBS dean Anthony Clarke; Prof. Bob Friendship, Population Medicine; Tracey Alberico of Human Resources; graduate student Melissa Fortin of the School of Engineering; Prof. Bev Hale, Land Resource Science; Prof. David Castle, Philosophy; and staff member Judy Tack of the OVC dean's office.

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TOWARD 2010

Recruiting the Very Best Faculty and Staff

NEARLY 40 PER CENT of Guelph's current faculty will retire over the next decade. In addition to the estimated 240 new faculty needed to replace them, the University will have to attract up to 200 more faculty members to accommodate the student growth expected from the double cohort in 2003 and beyond. Faculty will also need to be recruited for the Guelph-Humber programs.

On the staff side, 20 per cent of the current workforce will retire between now and 2010. This translates into about 50 replacement staff per year in that period. The challenge in the coming year will be to match the staff recruitment plans for growth in support staff to the projected growth in faculty and to achieve these within the budgets available, says provost Alastair Summerlee. To ensure adequate resources, the Council of Ontario Universities is advocating full grant funding by government for the expanded enrolment.

To deal with the challenge of recruiting and retaining the very best faculty and staff, the University has taken a number of important steps.

For faculty, the provost's office has established the Advisory Group on Faculty Recruitment and Retention. To date, the group has:

- Streamlined the new-faculty hiring process. Key features include a more intensive pre-recruitment planning phase enabling deans and chairs to initiate searches and make firm offers of employment earlier in the process.
- Launched a faculty recruitment Web site that consolidates all faculty postings and markets U of G to prospective employees. Since its activation in March, it has had nearly 20,000 visits.
- Adopted an integrated and institutional approach to increasing the University's profile in print and on the Web, domestically and abroad. To this end, it is producing a faculty recruitment brochure that will be available to departments in early

November. U of G employers will be able to take this document to meetings and job fairs, in and outside Canada. The brochure will also point to the faculty recruitment Web site, which will be enhanced with the incorporation of additional information (e.g., details about benefits, new-faculty profiles) and links to other key resources. To ensure broader international exposure, a U of G profile will also be posted on the Web site of *The Chronicle of Higher Education*.

• Developed folders with information about U of G and the city. These are available to departments for candidates and interviewees. They were also provided to all new faculty attending Teaching Support Services' orientation this summer.

In 2001/02, the advisory group will explore options for helping partners of new faculty find employment in the local community, enhancing support for new employees' transition to the Guelph community and identifying topic areas for a series of workshops with chairs around recruitment and hiring concerns. A review will also be undertaken to gather information on retention issues.

In addition, the provost's office is developing a recruitment database and reviewing ways that research/laboratory start-up packages and support can be developed to meet the needs of incoming faculty. Other planned activities include:

- Identifying new ways of recognizing and rewarding faculty and staff who make outstanding contributions to the institution.
- Enhancing support to sessional and contractually limited employees.
- Improving faculty training programs.

In the area of planning for staff recruitment, several important measures have been taken. The University's Planning Steering Group recently produced a report titled *Facilities, Infrastructure and*

Institutional Support Service Planning and the Impact of the Expanded Cohort.

The report notes that institutional support and ancillary units will have to plan personnel growth based on assumptions about student and faculty growth, the impact of such growth on service demands, available space and budgetary implications. The planning will not only have to be integrated with academic planning but will also have to be achieved within the context of fiscal constraints.

Staff planning will also have to consider areas where there may be particular challenges in recruiting and training staff, either because the field is especially competitive or because there is a lack of expertise, requiring that training be provided. Other challenges identified include the need to develop more flexible employment arrangements both to balance work and family and the University's changing needs, and restructuring organizational units to accommodate and provide for change.

The vice-president (finance and administration) and the provost will establish a working group to solicit and analyse data from managers in administrative, student support and ancillary units on their staffing plans, expected service changes, changes in organizational and reporting structures, and staff training programs.

Related to University planning, this issue of @Guelph contains a campus master plan issue sheet. All members of the University community are encouraged to fill out the sheet and return it by Oct. 31 to Prof. Jim Taylor, Landscape Architecture, co-ordinator of the campus master plan review, at the J.C. Hershey Building. The issue sheet responses can also be e-mailed to Taylor at jataylor@pr.uoguelph.ca.

A town hall meeting on the campus master plan is being held Oct. 17 at noon in Peter Clark Hall. It will be followed by a discussion session from 1 to 4:30 p.m.

Support United Way Raffles

CAMPUS UNITED WAY volunteers are selling raffle tickets on a vacation package donated by Golding Travel Ltd. of Guelph. First prize is a week at a four- or five-star resort worldwide. Second prize is a U of G leather jacket, and third prize is a getaway night for two at the Best Western in Guelph and 20 per cent off dinner at Mirage Restaurant.

Tickets are \$1 each or three for \$2. The Office of Research is also holding a raffle. The prize is a night at the Sauble River Marina. Tickets are \$2 each or three for \$5 and are available from Judy O'Donnell in the Reynolds Building, Julie Round in the University Centre or Christine Taub in the OMAFRA building. Revenue Control staff challenge

other units on campus to join their effort to turn bosses into baldies. They've convinced Glenn White, assistant vice-president (financial services), to shave his head for the United Way, but they need pledges of \$500 by Dec. 4. Call Andrea Klein at Ext. 3315 or Pat Duggan at Ext. 2865, or drop off your \$5 donation at Revenue Control on UC Level 4.



Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
l.graham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Acting Director Chuck Cunningham
c.cunningham@exec.uoguelph.ca

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ATHLETICS CENTRE USERS URGED TO LOCK UP BELONGINGS

University police are reminding users of the Mitchell Athletics Centre to lock up their belongings because of a large number of thefts in the locker rooms. Most of the incidents have occurred in the men's locker room and men's varsity team rooms between noon and 5 p.m., says community liaison officer Robin Begin. Items being stolen include wallets, money, cell phones and clothing. "Most of the thefts are taking place because people aren't locking their lockers," says Begin. "Sometimes they're just in the shower 10 feet away." She adds that people should avoid bringing valuables to the centre because some locks are being cut off by thieves. She asks that anyone noticing suspicious behaviour in the change rooms report it at Ext. 2245.

TOWN HALL MEETING SET

Prof. Alastair Summerlee, provost and vice-president (academic), invites faculty and staff to attend an informal town hall meeting on "Academic Issues 2001/02" Oct. 26 from noon to 1:30 p.m. in Room 230 of the MacKinnon Building. People are encouraged to bring their lunch.

SCHOFIELD LECTURE OCT. 18

Prof. Carlton Gyles, Pathobiology, will give the Ontario Veterinary College's 2001 Schofield Memorial Lecture Oct. 18 at 2:30 p.m. in Room 1714 of the OVC Lifetime Learning Centre. A leading expert on *E. coli* infection, Gyles will speak on "Living With *E. coli*." The Schofield Memorial Lecture Series was established in 1970 to honour the contributions of Frank Schofield, an OVC graduate and faculty member at the college from 1921 to 1955.

CONSTRUCTION RESCHEDULED

Construction to install a crosswalk on South Ring Road west of the University Centre exit, which was originally slated to begin Oct. 1, did not go ahead as planned because of delays encountered by the city. It's now expected that construction will begin Oct. 23 and will be completed by Nov. 2. Traffic flow is to be maintained on South Ring Road, but may be reduced to two lanes. For more information, call Physical Resources at Ext. 2009.

APPLICATIONS SOUGHT FOR GORDON NIXON LEADERSHIP AWARDS

Applications are now being accepted for the 10th annual Gordon Nixon Leadership Awards, which provide funding for student involvement, service and leadership initiatives. Application deadline is Nov. 1. Forms are available from Student Affairs, the University Centre Info Desk and student government executives, as well as on the Web at www.studentaffairs.uoguelph.ca.

Short Story Wins Top Prize

Library staff member receives prestigious O. Henry Award

MARY SWAN was home from her job at the McLaughlin Library last January nursing a broken ankle and feeling blue when she got a stunning phone call. Not only had her short story *The Deep* been selected for the prestigious O. Henry Awards, but it had also won first prize.

The critical acclaim vaults Swan into the ranks of such authors as Alice Munro, Joyce Carol Oates and John Updike. It's the highest honour she's received in the course of publishing a dozen stories in literary magazines over the last 20 years.

The O. Henry Awards are among the top prizes for literature in North America. They are given each year to the best short fiction by Canadian and American authors published in Canadian and American magazines. All of the 3,000 or so stories published over the course of a year are reviewed and whittled down to about two dozen that make up the *Prize Stories: The O. Henry Awards* collection.

"It's very flattering and gratifying to have my work appear in a volume with writers I've been reading for years," says Swan, who has worked for the University since the early 1980s, after coming here to complete her honours BA.

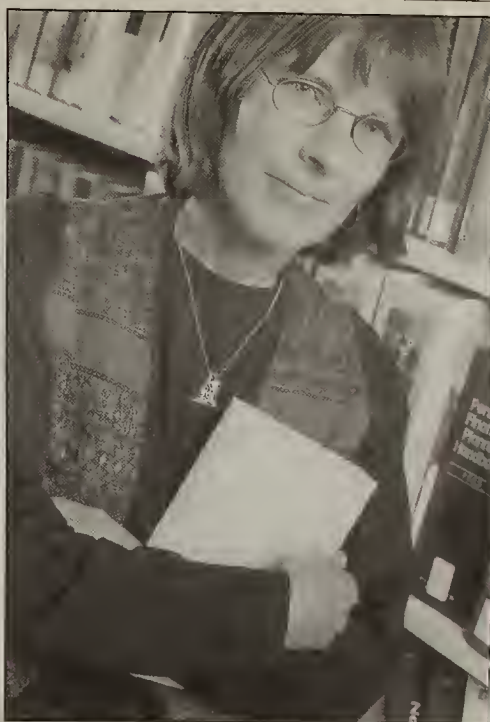
The Deep is a poetic tale about twin sisters and their experiences in the horror and confusion of the First World War. It was first published in the Summer 2000 issue of the University of Victoria's *Malahat Review*.

The seed for the story came to Swan during a conversation with a friend who was reading about the war. "She came across a footnote about an incident that really intrigued me. That started it all off."

Swan worked on *The Deep* off and on for 10 years, during which she read extensively about the war, especially the memoirs of women who served overseas.

"What really struck me is that although they weren't on the front lines, they put up with terrible conditions. But their attitude was: 'Let's get on with it; this is the job.'"

In an introduction to *The Deep* in *Prize Stories*, juror Mary Gordon says Swan "rescues the past... from the dead life of a museum piece" and *The Deep* "triumphantly insists on



A collection of Mary Swan's writing will be published next fall by Porcupine's Quill.

PHOTO BY MARTIN SCHWALBE

fiction's kinship with poetry. Its greatest strength lies in the creation of image and atmosphere...."

Gordon says she chose Swan's story "as first among so many strong others because of its utter originality, its daring to assert the primacy of complexity and mystery, its avoidance of the current appetite for ironic anomie and thinness. It flows entirely on its own terms, and the terms are rich and strange."

Gordon and fellow jurors Michael Chabon and Mona Simpson awarded the second prize to Dan Chaon for *Big Me* and third prize to Munro for *Floating Bridge*.

Munro called Swan to congratulate her on the first-place finish. The two have known each other since they met in the early 1970s when Swan was a student at York University.

"She's been very encouraging and supportive over the years, and

this has been important to me," says Swan.

"Sometimes I'll send her a story that's been rejected all over the place to see what she thinks. We don't talk specifics, but her response is always positive, things like: 'Hang on, it's fine, it's all working.' Sometimes you really need to hear that."

Porcupine Quill press plans to publish *The Deep* next fall along with a collection of Swan's work.

She plans to keep on at the library, helping people who come to the social science and arts reference desk find what they need.

She doesn't have a new story on the go right now, but "there are things simmering. It's just something I have to do. The whole process is very mysterious. Things just impose themselves on you and demand to be written."

BY STACEY CURRY GUNN

PEOPLE

JOSEPHY CO-CHAIRS TALKS ON BREAST CANCER

Prof. David Josephy, Chemistry and Biochemistry, co-chaired the Environmental Mutagen Society's international scientific conference on "Breast Cancer and Environmental Mutagens: Bridging Molecular Research to Medicine and Public Health," held last month in North Carolina. Josephy also chaired a session and gave a talk on "Mutagenicity Assays Using Cultured Big Blue™ Rat Mammary Epithelial Cells."

PHILOSOPHER GIVES PAPER

Prof. David Castle, Philosophy, attended the annual meeting of the Atlantic Region Philosophers Association at Mount Allison University and gave a paper titled "Paternalism and the Labelling Issue" about the labelling of genetically modified foods.

APPOINTMENTS

Andrew Bendall joined the Department of Molecular Biology and Genetics as an assistant professor Aug. 1.

Dominique Bureau was appointed assistant professor in the Department of Animal and Poultry Science July 1.

Elliott Currie was appointed assistant professor in the Department of Agricultural Economics and Business Aug. 1.

Michael Denk joined the Department of Chemistry and Biochemistry as an associate professor July 15.

Julie Dionne was appointed assistant professor in the Department of Plant Agriculture July 1.

Terry Graham began a five-year term as chair of the Department of Human Biology and Nutritional Sciences Aug. 1.

Robert Foster was appointed associate professor in the Department of Pathobiology July 1.

David Kelton was named associate professor in the Department of Population Medicine Aug. 1.

Femi Kolapo joined the Department of History as an assistant professor Aug. 1.

Peter Krell was named acting chair of the Department of Microbiology July 1.

Jim Mahone, special assistant to the dean of OAC, was appointed associate professor in the College Faculty of Environmental Design and Rural Development July 1.

Andrew Sherwood joined the School of Languages and Literatures as an assistant professor Aug. 1.

Jerrard Smith joined the School of Literatures and Performance Studies in English as an assistant professor Aug. 1.

Gary Umphrey was appointed assistant professor in the Department of Mathematics and Statistics Aug. 15.

Peter Van Straaten was appointed associate professor in the Department of Land Resource Science May 1.

Research in Motion CEO to Speak at Video Conference

THE OFFICE of Open Learning presents "Visionary Seminar 2001," a video conference featuring Mike Lazaridis, president and CEO of Research in Motion (RIM), Nov. 7 in the University Centre.

Lazaridis, recipient of the Visionary Award for 2001 from the Office of Partnerships for Advanced Skills (OPAS), will discuss "Wireless Breakthroughs" at 12:15 p.m. in the Whipleretree on Level 4 of the

University Centre. The free event will be preceded by a complimentary lunch beginning at 11:30 a.m. The event is open to the public, but advance registration is required by calling the Office of Open Learning at 767-5000.

In 2000, RIM was ranked No. 21 in *Profit* magazine's list of the Top 100 fastest-growing Canadian companies. Lazaridis will share his vision for the future of his company

and the industry, his thoughts on research requirements and the skills he believes will be required of graduates entering the workforce.

The event is being presented by the University in collaboration with the Guelph Chamber of Commerce, Bell and OPAS, a partnership of all Ontario universities and leading Canadian companies dedicated to advancing the competencies of organizations and individuals.

U of G Profs Join Effort to Study Implications of Advances in Genomics and Biotechnology

Goal is to create a balance between scientific progress and public accountability

FAST-GROWING transgenic salmon could help feed the world's rising population. But will people eat them? Or will any potential benefits of this bioengineering feat be lost amid concern about the effect on human health, environmental sustainability and animal welfare?

Profs. David Castle, Philosophy, and Karen Finlay, Consumer Studies, aim to have an impact on the outcome of that ethical debate —

and other debates like it.

They have joined forces with colleagues across Canada and internationally to examine the implications of advances in genomics and biotechnology that they believe could ease great disparities in human health around the world.

The group of 25 social science and humanities experts constitute the Canadian Program on Genomics and Global Health (CPGGH). The

management group for the program consists of Peter Singer, director of the University of Toronto Joint Centre for Bioethics; Abdallah Daar of U of T's Public Health Sciences; and Castle, whose area of expertise is bioethics.

The program is slated to receive \$6.2 million from the federal funding agency Genome Canada, plus matching funds from other public and private-sector sources over 3½

years. It is one of 22 large-scale research projects approved in the first national competition for Genome Canada funds.

The researchers will evaluate the social implications of biotechnology in medicine and agriculture in an effort to maximize any benefits to global health equity while reducing any associated risks. The goal is to create a balance between scientific progress and public accountability in terms of the interrelated health, agricultural and environmental issues.

"We're hoping at the end of the day that it will prove to be a successful process and lead to informed public debate, fruitful policy changes and ultimately improvements in global health equity," Castle says.

For each of six planned projects, the CPGGH process will include problem identification; case studies; ethical and legal analyses; consensus development among stakeholders to develop best practices for using new technologies; public consultation; and information dissemination.

A major goal is for the guidelines on best practices to be adopted by relevant organizations such as the Canadian government, the World Health Organization (WHO) and the Organization for Economic Cooperation and Development, as well as the biotechnology, genomics and biopharmaceutical industries.

Castle is the principal investigator for a project on transgenic animals that will use genetically engineered salmon as a case study. He is also co-investigator of a project on genetically engineered plants that produce vaccines, nutrients and drugs.

The other four projects in the program cover the genomics policies of governments in developing countries; decision-making regarding genomics in multinational corporations; international and comparative perspectives on regulations of genomics research; and international and comparative perspectives on health systems and insurance implications of new genetic testing.

As new technologies emerge, it's important to identify the ethical issues they raise, anticipate concerns, inform the public and engage them in the debate before opinions become deeply entrenched, says Castle. The alternative is a replay of the public unease and protests over genetically modified (GM) foods such as canola, soybeans and corn.

Public consultation will give the researchers "a sense of the limits, the

boundaries of an issue, people's tolerance for a new technology," he says.

Finlay will apply her expertise with consumer research to the transgenic animal project. GM salmon will be a timely case study because North American food-safety regulators could give the fish a stamp of approval by the end of the year.

She will survey consumers on their attitudes towards transgenic processes and various foods to determine their current level of knowledge, concerns, beliefs, perception of the risks and benefits, and how much information they want.

Often, consumers aren't looking for reams of information, she says, but trouble brews if they believe it is being concealed.

"The only consistent information we have from research is that consumers want disclosure about biotechnology and they want to be involved, or at least have the opportunity to be involved. They also want to know what they're buying. Whether it relates to salmon or any other product, they want to make their own decision. Disclosure equates to an honest government, an honest manufacturer. Government and scientists need to understand and accept this message. The ultimate success of what they do and what they develop rests solely in the hands of consumers."

Finlay adds that when designing a communications strategy and policy around the issue, "you have to find out what the consumer knows, what the consumer wants. We always seem to get the cart before the horse, before we know if it's something the final gatekeeper wants or not. That final gatekeeper is the consumer. We need unbiased agenda-less information from the consumer. That is what this project can achieve, and it can lead the way in this regard."

Castle notes that aquaculture has grown tenfold in the past 10 years and will have to grow another sevenfold to meet WHO predictions for global protein demand in 2025.

"Biotechnology is expected to play an expanding role in aquaculture in terms of growth enhancement, disease resistance, cold tolerance, etc.," he says. "If aquaculture gets off on the wrong foot with consuming publics, its capacity to address global dietary protein demand could be jeopardized. The effects will be most significant in developing countries, where fish is already, as the Food and Agriculture Organization calls it, the 'poor person's protein.'"

"Most biotech capacity exists in developed countries. If aquaculture biotechnology fails to develop there, it won't make its way to where it's needed most or it will be delayed. That's why the CPGGH program adopts the stance that we should be anticipating reactions to agri-food biotech that have implications for global health equity."

BY STACEY CURRY GUNN



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The SPARK That Caught Fire

Now in its 13th year, student research writing program is burning bright

A RESEARCH communications unit that churned out regular contributions to Canadian Press, dozens of targeted news stories to commodity-specific publications, scores of corporate and government news releases and the biggest biannual research magazine in the country — while sending its alumni on to rewarding careers — would take its rightful place among the most active post-secondary communication outfits in Canada. But its star shines a little brighter when the entire unit consists of students.

U of G's SPARK (Students Promoting Awareness of Research Knowledge) program, now in its 13th year, continues to grow in its number of participants, resources and partners. It's developing a growing reputation as the starting point for successful communication careers across the country. It's a template for almost 20 other SPARK programs that, with help from the Natural Sciences and Engineering Research Council (NSERC), have sprung up at universities across Canada. And it's put Guelph solidly on the map as a leader in research communications training.

Next month, NSERC is bringing mentors from other SPARK programs to Guelph for a day-long workshop led by SPARK founder Owen Roberts, director of research communications. NSERC's Web site now boasts more than 30 SPARK-written news stories; mentors will share their successes and challenges with their colleagues, who are obliged to have a self-supporting program after NSERC's initial three-year \$7,000 grant ends.

They'll hear a lot about the partnerships that drive U of G's SPARK program, particularly those with Guelph's research partners in the public and private sectors.

SPARK began in 1988 with a \$500 contribution from Pioneer Hi-Bred, because the company's then-communications manager Art Stirling believed in Roberts's vision of developing talented writers who understood how to report on research. Over the years, Pioneer has continued its support of the program and showed the depth of its commitment in June when Stirling presented a cheque to president Mordechai Rozanski and Roberts for the first instalment of \$100,000 to help develop a student-training centre for agricultural communications.

The centre is based on an inte-



This latest crop of SPARKers, Lucas Habib, Murray Tong, Shannon Hicks, Blythe McKay, Marianne Clark, Heidi Clark, Erinn White and Lisa Caines, are adding to a lengthy tradition of students spreading the word about research achievements at U of G.

PHOTOS BY MARTIN SCHWALBE

grated agricultural communications program Roberts co-ordinates through the Office of Research and the School of Rural Extension Studies, which combines the SPARK program and two courses he teaches in agricultural communications.

Others are sharing the SPARK vision. Last year, Rozanski shook hands with Canadian Food Inspection Agency president Ron Doering

on an agreement that included support for SPARK students to write stories in support of Canada's efforts to ensure a safe food supply. Then last month, both Ontario Pork and the Ontario Cattleman's Association entered an agreement to have SPARK-written stories about U of G research appear in their magazines and newsletters. An arrangement with the Ontario Institute of Agrol-

gists followed (see story below).

These were just the latest partnerships in a list that includes other commodity groups and publications. On a regular basis, bylined SPARK stories appear in the *Ontario Milk Producer*, *Greenhouse Canada*, *Country Guide Ontario*, *Ontario Farmer* publications and *Better Farming* magazine. In addition, SPARKplugs, a weekly column

about research, appears in the *Guelph Mercury* and, from there, is often sent on to Canadian Press. Many of these stories also appear in the U of G *Research* magazine and are issued as news releases to the media and on the University Web site.

The summer 2001 *Research* magazine, which focused on environmental research at Guelph, marked another pinnacle for SPARK and agricultural communications students, who produce the publication. The magazine — which has 70 per cent of its costs sponsored by the Agricultural Adaptation Council — is the biggest issue ever at 80 pages (it started life in 1985 as a four-page newsletter). For the first time, it featured student design (by *Ontario* staffer Jay Dart) and greater student involvement in photo selection and co-ordination. Also for the first time, the online edition of the magazine will be updated regularly as environmental stories unfold.

Roberts attributes the success of these research communication initiatives to student enthusiasm, administration and faculty co-operation and sponsor support.

"Students see the career-building potential, and sponsors see the understanding students are developing of research, by the many tangible products the students produce," he says. "Faculty have been so supportive of the whole program, giving their time to help students develop stories that represent research in an interesting, accurate way the public can understand."

And as this story was going to press, more good news arrived for SPARK from the Canadian Farm Writers Federation (CFWF). Adding to an already impressive array of 14 national and international awards — including best new idea from the Canadian Council for the Advancement of Education — SPARK writers won three awards in this year's CFWF writing and broadcasting competition. They were for best news release (about Project SOY), best publication (*Aquataik*, a newsletter about aquaculture research at U of G) and best television reporting — for a story about SPARK, produced by student writer Dale Duncan and broadcaster Michael Chapman of the Ontario Ministry of Agriculture, Food and Rural Affairs' Town and Country Ontario.

BY LISA CAINES AND
MARIANNE CLARK
SPARK PROGRAM

It All Started Here



Carol Pilley, left, on the job with Ginty Jocius and Henrietta Coole.

Graduates are getting jobs across the communications industry: in newspapers, radio, marketing and public relations firms.

For example, as Carol Pilley was completing a master's degree in animal physiology at U of G, she decided she wanted to communicate science rather than work in the industry. She joined SPARK, became senior student writer and is now the writing and account manager for Ginty Jocius & Associates, a Guelph-based integrated communications company.

"You can write essays in school, but I don't know where else you can get the kind of experience SPARK offers," Pilley says.

Former program participants are also starting to bring their skills back to campus to benefit the University. Natasha Marko was involved with SPARK for 16 months before heading to the University of



Natasha Marko with resident OVC cat Lion.

Western Ontario for an MA in journalism. Now, she's the new communications officer for OVC.

For a full listing of the careers of SPARK alumni, visit the Web site www.uoguelph.ca/research/communications/spark/see.

BY LISA CAINES

Partnership of Ag Professionals, Students Blossoms

TWO NEW communications partnerships have been created between the Ontario Institute of Agrologists (OIA) and U of G. Both partnerships — one involving the University's *Research* magazine and the other with Guelph's agricultural communications program — are designed to give students at U of G an opportunity to further develop

their research and communication skills, and enhance communication between the University and OIA members.

The initiatives will generate stronger communication among professional agrologists, Guelph students and the University itself, says Owen Roberts, agricultural communications instructor and editor of

Research. "This is a new way of working together to promote technology transfer."

As a result of the partnerships, the OIA is now a key sponsor of *Research*. It supports distribution of the student-produced magazine to almost 900 professional agrologists in Ontario, a partnership that is a first for the magazine. This arrangement

will showcase Guelph's research and the students' writing to a wider audience, as will a second arrangement that will see the students contribute articles about U of G OIA members' research activities to the institute's newsletter.

OIA executive director Ruth Friendship-Keller says the institute's new involvement with Guelph's ag-

ricultural communications students is also aimed at educating students about potential professional careers in the agri-food industry and increasing their future participation in the OIA.

BY COLLEEN ARBUCKLE AND
MICHELLE MCMULLEN
AG COMMUNICATIONS
STUDENTS

FROM STRENGTH TO STRENGTH

"Part of the strengthening of rural Canada in the 21st century

will be to bring its assets and potentials to the greater notice of all Canadians"

BY TONY FULLER

Editor's note: The following talk was presented by Prof. Tony Fuller, Rural Planning and Development, at the 2001 annual meeting of the Agricultural Institute of Canada, held at U of G this summer.

THE ORIGIN OF ALL GREAT CIVILIZATIONS is agrarian society, and this is no less true of Canada. Since the coming of the settlers, agriculture has underpinned the staples economy and continues to be a force, even though the farm population was down to less than two per cent by the end of the 20th century. From being "the be all and end all" of the Canadian economy, agriculture has taken its place among the many productive activities of a diversified economy.

The question, then, is: What will rural life in a place like Ontario look like in the years to come, especially considering its illustrious rural past and the opportunities and dilemmas facing us in the future?

One way of answering this is to review selected strengths from three phases of Ontario rural history. In doing this, we must keep in mind what we consider the key strengths to be and to see how they change over time. The main theme selected for this purpose is the interplay between technology and human resourcefulness and how this has played itself out in society and on a landscape basically designed and managed for agriculture. The three historical phases, expressed as the dominant characteristic of rural society at any one point in time, are: the short-distance society, the industrial society and the diversified society.

The main strength of the short-distance society is the single-community focus and the highly functional form of agrarian society. The underlying rationale for this is a technology called the horse. The distance that horses could travel in a day and return to the farm determined many things. It governed the distance between towns (from eight to 10 miles in most of Ontario) and hence the patterns. It therefore determined the "community" as that area around a town where people could get to and home again in a day. This also became the school district and the postal district, the parish and the area served by the Women's Institute. The community and the service area overlapped and remained coherent as one spatial community unit. This was the great strength of rural Ontario during the settler period. Later, this scale of organization became enshrined as the basis of the municipal system.

In terms of agriculture, this community system based on horse power and local mobility was highly efficient, producing commercial crops of wheat, apples and cheese for export to the industrial nations of Europe throughout most of the 19th century. On the landscape, the layout of farms, service centres and the road system all became important for the expansion of economic and social activity to come — and it was all based on the horse.

In the industrial society that followed in the late 19th century and lasted to the end of the Second World War, the great strength of rural society was its ability to adapt to new opportunities, both in farming and in industrial processes. The mechanical skills of farmers, the savings accruing from farming and the extra labour produced by large families provided the ingredients (land, labour and capital) for a vigorous period of in-



dustrialization that took place in the small towns of Ontario. A rural factory system grew up based originally on manufacturing farm implements and supplying the many and varied requirements of settlers going "out west."

The industrial period had several phases. Ultimately, it produced the automobile, which radically changed the "distance" that people and goods could travel. This new distance that people and goods could cover with the pickup truck went together with the tractor, electrification and the telephone to transform farming into a business, and maintained its position as one of the main strengths of the 20th-century Canadian economy.

In the post-war period, the main strength of rural society was its ability to diversify in the face of changes and opportunities brought about by an ongoing phase of urbanization. This is referred to as the diversified society, in which new and diverse ideas are incorporated into the rural system. It allows farming to co-exist with many other activities valued by Canadian society: recreation, cottaging, tourism and retirement. All these new activities have revitalized many small towns and allowed them to remain on the landscape to go on serving the needs of farmers as well as newcomers. The strength here is the adaptability and resourcefulness of people and places.

The reason why the phrase "From Strength to Strength" is appropriate here is that, in Ontario, these strengths have built up one on top of the other to form a strong web of enduring characteristics, not unlike the strength of a modern car tire, with bands of overlying rubber. Such an overlay allows new opportunities to be tried and shocks to be absorbed. The road system and the settlement pattern from the short-distance society

underpins the industrial structure of small towns and allows for new ventures. For example, it enables some places to attract automobile component plants today because they have the industrial tradition, the resources and a reliable labour force as attractors. Importantly, such towns also have what is considered a good quality of life, which is of increasing importance in attracting new industry and entrepreneurs to relocate.

A good rural quality of life will be the reason that places such as rural Ontario will continue to go from strength to strength in the future. Although "quality of life" may be dependent on variable perceptions, it has the power to bring people with new ideas and investments to rural areas. In this regard, the latest technology, telecommunications, has been a boon in that it allows some people to reside in rural areas and "telecommute" to work. If ideas and information are the drivers of the new rural economy, then such developments will be part of the next mix of activities that makes rural areas vital and vibrant places to live and work.

Enabling the next transition to a new rural economy will need a lot of stickhandling, however, because there are a number of problems along the way. Although the original community system is attractive in terms of the built environment and social trust, it is getting old and will need large investments to maintain its infrastructure, especially infrastructure in which the public has developed an acute interest, such as safe drinking water. Safety also applies to food, and much will need to be done to assure the public that the

food system is both safe and humane. Resolving these issues will require the farm community to work together with the rural community as allies and guarantors of safe rural systems. Transparency and inclusion will be better tactics than privacy and exclusion. Alliances will be better than individualism and isolation. Freedoms to practise will have to be negotiated and upheld by all parties in the public interest.

Public interest can be constantly redefined by assessing the "assets" that rural brings to the quality of life of all Canadians. Strength can also be defined as the assets that reside in rural areas, as long as those assets are valued and can be sustained. The vast food system and the land and water systems that sustain it, as well as the service system that promotes and delivers it on a regular and safe basis, are enormous assets all Canadians need to be mindful of. The same can be said for the other primary resources such as forestry and fishing, as well as for the mining communities in the north. All have had the same history of settlement, industrialization and diversification. All have had enormous amounts of public and private investments. If you add to this the natural resources that rural areas contain, be they trees, lakes, groundwater supplies or recreational facilities, then the asset base of rural Canada is substantial. It is certainly not well appreciated. Part of the strengthening of rural Canada in the 21st century will be to bring these assets and potentials to the greater notice of all Canadians.

Surrounding these assets are the traditional strengths of the rural community system, the people with the capacity to produce and to adapt. These are our strengths. They also represent our heritage and our opportunities for a sustainable future.



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TAKING IT ONE DAY AT A TIME

Rebuilding her life after being hit by a drunk driver, psychology student

finds healing, strength in the world of dressage riding

BY LORI BONA HUNT

U OF G STUDENT Jenni Rowe knows better than most people how random life can be and how one chance encounter can change everything. Had she opted not to go to dinner at a friend's house one night in 1994, she would not have been a passenger in a car that was hit by an impaired driver. Maybe the driver who had a blood alcohol level four times the legal limit would still be alive and Rowe's back would not have been broken. She would not have heard the words: "You will never walk again" or felt the exhilaration of being able to prove the doctors wrong. She might never have experienced pain so intense that she sometimes can't sleep or finish exams.

But had the horrific crash not happened, Rowe may never have taken up dressage riding as a form of therapy, something that has helped heal both her physical and emotional scars. She probably wouldn't be training for international competitions, with her sights set on going to the Paralympic Games in Greece in 2004. Her childhood dream of owning her own horse might not have been fulfilled, and she definitely would never have become known as one of Canada's most outspoken anti-drunk driving advocates. She might be studying to work with endangered animals as planned, never finding her niche in psychology or meeting the person she plans to marry.

Maybe so. But this is not going to be a life-has-a-funny-way-of-working-out story. It would be unjust to write about Rowe this way; it took too much suffering, pain, hard work and courage to get to this point. Instead, this is simply a story about someone who picked up the pieces of a life that was literally shattered by one of life's random — but preventable — encounters.

Before the crash (Rowe refuses to call it an "accident," saying the driver had a choice to get behind the wheel), the Woodstock native says she was a "normal" teenager — active, outgoing and ready to conquer the world. "The crash changed everything."

She was in a coma for four days, suffering from a ruptured bowel, a lacerated liver, broken ribs, facial injuries, a broken ankle, a broken back and a spinal cord injury. She spent three months in two different hospitals.

"I had no feeling from my chest down, none whatsoever. The doctors said I would be paralysed for the rest of my life. I never denied what they told me; I really did believe I would never walk again. But slowly, it started to seem like I could feel things again. One morning, I called the nurse and said: 'I know you get this all the time, but can you take my shoe off? I think my toe is wiggling.' She took off my shoe and, sure enough, I was wiggling my toe."

But Rowe didn't want to get too hopeful. "I remember the doctor saying: 'You can't walk on a toe.' I don't think he ever believed I would walk again until the day he saw me standing up in leg braces. Only then did he finally say: 'I'm always glad when a patient proves me wrong.'"

Over time, Rowe did learn to walk again, first in braces, then with a cane and eventually unassisted. She even managed to catch up with her studies and finish high school on time. But she was left with restricted mobility and can no longer run or jump. She also has chronic, severe nerve pain that affects her ability to sleep and requires her to rely on pain medication that often has major side effects.

"There were days I really thought I was losing control of my body," she says. "Eventually, we found a combination of medication that helps keep the pain under control. But there are trade-offs. I'm tired, often anemic, and I can suffer from sleep paralysis where your mind wakes up but you have no control over your body. You hear people, but no one knows you're awake and you can't scream for help."

One way Rowe helped herself heal was by helping others. For about six years, she travelled across Canada speaking to



schools and community groups and even addressing drunk drivers. "Impaired driving is such a senseless act," she says. "I didn't want to see others go through what I had been through." She even allowed her story to be the subject of an anti-drunk driving documentary, *Every Day After*, which is shown in secondary schools and universities across the country.

"I look at my life as a continuing process. I will always be dealing with my health — that is the nature of my injuries. The future may get harder as my health cycles, but I won't give up. I just take it one day at a time and keep going."

"Making the video was difficult. It was like baring my soul, and it's hard to sit and watch. They show it here in the University Centre sometimes, and I try to stay out of the building when I know that's happening. It's hard to think that people who know me but don't know what happened to me will see it, that they will know such intimate things about me."

After her fourth year at U of G, Rowe decided to scale back on her advocacy efforts and concentrate on school and her health. "Talking about it so much makes it difficult to get better emotionally because you have to keep reliving the crash. I had to move forward with the rest of my life."

Part of that process involved choosing a career. She still hoped to become a zoologist and spent one summer working as a research assistant. But she found the fieldwork impossible. "I had to be carried everywhere."

She finally settled on psychology. "It was a hard decision. I had planned to study animal behaviour since I was a child, and now I couldn't. But I realized I was good with people, good at listening, and decided that studying humans was just a different aspect of studying behaviour."

But it's hard to be a student when you suffer from chronic pain and have to rely on medication with unpredictable side effects. "I can only go to school part time. I can never 'cram' like other students and leave something to the last minute because I don't know if I'll be able to function when that last minute gets here. I have to do as much as I can when I'm feeling well. It's hard because I think people see me and think nothing is wrong. But I've learned not to stress about it. School is important, but I have to think about myself, my health and my body first."

It was with her body in mind that Rowe took up dressage riding four years ago at the Sunrise Equestrian Centre. "I had been a competitive runner, and I figured riding would be at least one form of exercise I could still do. But soon it became more than that. I looked forward to doing it every day."

In dressage, the rider must guide the horse through various manoeuvres without reins, using barely perceptible signals of leg pressure and body weight.

"When I began to compete and do well, I felt proud of myself," says Rowe. "It was good for my self-esteem. There have been times when I've been in so much pain, I couldn't sleep and couldn't study and I was afraid I'd have to drop out of school. I would get so down on myself, remembering everything I used to be able to do. But when I could get on a horse and ride, it just seemed to take all my pain, all my worries away. It still does that for me."

Rowe quickly rose through the ranks, training up to five days a week and becoming an elite disabled rider in just a couple of years. Last year, she won the Eastern Canadian Dressage Championship. This summer, she earned a silver medal at the North American Young Riders Championship, a prestigious show for able-body riders. Rowe was one of four riders with disabilities selected from across North America to give a demonstration ride and compete with one another. In September, she won the Canadian National Dressage Championship for Riders with a Disability in Langley, B.C.

It was at the nationals that Rowe found the training partner she hopes will help her get to the Paralympics. In dressage riding, competitors get to ride their own horse only up to the provincial level. At the national level, they must select a horse from a pool and get two hours to practise before the competition. Rowe selected a chestnut thoroughbred mare named Rose. "I had never been on her before, but when I rode her, it was like magic." After the competition, Rowe and her coach convinced Rose's owner to sell her. The horse arrived in Guelph last week.

Rowe recently took another big step, moving her training from Sunrise to a barn outside Guelph that focuses on elite athletes with disabilities. She plans to work towards attending a World Cup competition in 2003, then making the Paralympics team. Somewhere in the midst of it all, she hopes to begin work on a master's degree and eventually marry partner Shawn Matheis, a PhD student in psychology.

"I won't let the actions of the impaired driver who hit me stop me from achieving my goals," says Rowe. "I still have days where I am tired and discouraged, and this affects my mental state, but I am able to cope with it better now and go with the flow. I think a lot of people like to hear me say that things are better now, like a happy ending. But I look at my life as a continuing process. I will always be dealing with my health — that is the nature of my injuries. The future may get harder as my health cycles, but I won't give up. I just take it one day at a time and keep going."



U OF G-HUMBER GOES TO THE FAIR

University of Guelph-Humber recruitment got off to a good start last month at the Ontario Universities' Fair at the Metro Toronto Convention Centre. Here, Guelph president Mordechai Rozanski, left, and Humber president Robert Gordon declare the U of G-Humber fair display open for business. Thousands of potential students met with faculty, staff and students representing new program opportunities at Guelph-Humber.

PHOTO BY DAVID LUI, HUMBER COLLEGE AV GRAPHICS

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Better Beginnings Receives More Funding for Research

A COMMUNITY-BASED long-term research initiative that provides valuable information about Canadian children's health is receiving more than \$4 million to continue the research for the next four years.

Better Beginnings, Better Futures — a collaborative cross-disciplinary project primarily involving the universities of Guelph, Wilfrid Laurier, Queen's, Ottawa, Windsor and Ryerson — received the funding from the Ontario ministries of Health and Long-Term Care, Community and Social Services and Education.

The project is now in its 10th year of providing community-based programs in low-income neighborhoods of Guelph, Kingston, Sud-

bury, Toronto, Walpole Island, Ottawa, Cornwall and Etobicoke. The project's research component aims to collect information on the factors that influence child health and the impact of community programs. At U of G, Profs. Susan Evers and Kathleen Brophy, Family Relations and Applied Nutrition, are responsible for the nutritional and child-care components of the research.

Many positive effects have resulted from the early years of the project, says Evers. For example, researchers have found that community-based programs have improved the energy and nutrient intakes of children in Better Beginnings communities.

In Guelph, Onward Willow is a

Better Beginnings, Better Futures community. It offers a wide range of programs, including home visits, parent/child drop-ins and food programs. The breakfast program has 75 children during the school year.

Researchers are following the children in Better Beginnings communities from early childhood through adolescence. In total, they hope to follow the long-term progress of the children over 25 years.

"The level of community involvement is phenomenal," says Evers. "The residents are very active in leadership roles, and they're having a say in what programs should be implemented in their community."

BY LISA CAINES
SPARK PROGRAM

LETTERS

RESPECTFUL DISCUSSION REFLECTED UNIVERSITY'S VALUED TRADITIONS

I would like to express my gratitude to University professor emeritus Henry Wiseman; president Mordechai Rozanski; Prof. Maureen Mancuso, associate vice-president (academic); and Brenda Whiteside, associate vice-president (student affairs) for organizing the academic forum held Oct. 3 to discuss the tragic events of Sept. 11.

I would especially like to thank the members of the discussion panel — Profs. Richard Reid, Janine Clarke, John Benson, Muhammed Saddiq and Karen Wendling — and the people who attended the forum for the outstanding nature of their comments, questions and debate.

The juxtaposition of observations, views and comments from different perspectives and the open,

frank and respectful discussion carried out with respect for each other's opinions reflected the valued traditions practised at a university such as ours. Airing these views and trying to make some sense of the events leading up to the tragedy and its aftermath brought a sense of understanding for the people listening and participating in the forum.

A number of ideas and suggestions were offered during the question-and-answer period about the role of education and teaching in creating understanding in the world. Perhaps the idea that struck the greatest resonance with me was the plea from a student member of the audience that universities should continue to strive for greater collaboration and interdisciplin-

ity in our approaches to academic inquiry and debate.

Despite the challenges that interdisciplinarity raises, the University of Guelph continues to promote and encourage an interdisciplinary approach. The impetus to understand issues, events and activities in a multi-dimensional context has never been more important. It is critical that the University redouble its efforts to promote academic debate that reflects the interplay among disciplinary perspectives and reinforces the strategic commitment at Guelph to interdisciplinarity and open-mindedness.

Prof. Alastair Summerlee
Provost and Vice-President
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HONDA

Dragon Boat Team a 'Support Group on Water'

Continued from page 1

The makeup of the BreastStrokes team attests to the random, fickle nature of the disease. Members range in age from their 30s to 70s. They include a writer, artist, musician, biologist, veterinarian, researcher, teacher and receptionist. They are mothers, sisters and daughters. Some have been physically active all their lives; others are more sedentary. All are unique, yet all share this challenge.

Team member Nathalie Lemieux, who successfully fought breast cancer three years ago at age 29, notes that the team is "sort of like a support group on water. We want to take an active part in life and assist others who are going through breast cancer. The overall goal is making sure we're healthy."

Lemieux, a 1999 B.Sc. graduate of Guelph and now program co-ordinator at OVC's Wild Bird Clinic, has been inspired by the strength of her teammates.

"I've met women who were diagnosed 10 and 20 years ago, so it gives you hope," she says, soberly adding that she's also met women "who haven't had the same luck."

All the women on the team are really close, she adds. "We've formed a bond that you really can't explain."

Lemieux has been steersperson for the team since it was launched three years ago on the initiative of Guelph grads Margaret Brewer and Valerie Powell. Brewer and Powell had paddled with a breast cancer survivors' team in Hamilton and brought the idea back to the Guelph and Wellington Breast Cancer Support Group.

"I do it for fun," says Brewer. First diagnosed in 1994 at 49, she is now fighting a second battle with the cancer. "The camaraderie is tremendous, and it allows us to bring awareness of the disease to the public."

The team has come a long way



Dragon boat team members and their coach gather for a group photo at a race this summer.

since its early days, when training began in a church basement. They sat on chairs and used sticks and brooms to mimic the paddling action.

Brewer laughs as she recalls the first time the group practised in a real dragon boat at Guelph Lake. "It was tremendously exciting, but we couldn't get the boat back to the dock."

Richards came on board as the team's coach at the start of its second season, providing a major boost for the endeavour.

"Pat is great to work with," says Lemieux. "She has such a high spirit. She's right there with us and wants to do what she can for us."

Richards assesses each team member, checks their range of motion and creates a personalized training program.

Breast cancer surgery often damages the surrounding tissue and nerves, permanently reducing arm flexibility, and can cause the shoulder joint to freeze. The removal of lymph nodes can result in debilitating swelling known as lymphedema.

For some women, the medical profession offers little guidance about resuming physical activity or rehabilitation after treatment for breast cancer, says Richards. They may be told what they can't do, rather than what they can. Some are told not to lift or carry anything.

But Richards says she's convinced there are both physiological and psychological benefits to be had from physical activity: increased flexibility, range of motion, strength, endurance and self-esteem.

In addition, "the spirit and soul are just touched and brought back to

life," she says.

Under their coach's careful watch, the "dragon ladies" embarked on weekly aquafit classes and held paddling sessions sitting on the side of the Athletics Centre's gold pool. This fall, they are adding weight training to their program.

"Dragon boat racing is an intense anaerobic sport," says Richards. "You get in a boat and paddle your buns off. It places heavy demands on the back and upper body — it's a very tough race."

Richards has seen the dragon boat training and competitions make a "huge difference," particularly for women who haven't been active before. She also runs a Beyond Breast Cancer program to help survivors become healthier and stronger. This program is open to all survivors of the disease.

Through these activities, she is conducting research and compiling data "to educate the medical profession about the absolute necessity of physical activity" after surgery and cancer treatment. "The reoccurrence of other types of cancer is so high, their bodies need to be as strong as possible."

For the BreastStrokes team, the training paid off in another way this summer. They competed in four dragon boat festivals, and at Stratford, the last of the season, they reached their goal of finishing the 500-metre course in under three minutes.

The team is now intent on finding the funds to get its own practice boat, instead of renting one at each festival. Another option would be to join forces with another team in Guelph that's interested in sharing a boat.

"You don't get the same stroke or range of motion when practising from the side of the pool," says Lemieux. "The way the water moves is a whole different matter when you're in a boat. We would all benefit greatly from getting our own boat."

The team invites all breast cancer survivors to take part in the Beyond Breast Cancer program and/or join the team. It's an opportunity to "share the spirit, obtain healthy living and, most important, celebrate life," says Lemieux.

Adds Brewer: "We're always looking for new members. They don't have to be athletes. We're all shapes and sizes and levels of fitness. Some are good at sports, some are terrible at sports, and that's fine. Pat will soon get them in shape."

For more information about the BreastStrokes team or the Beyond Breast Cancer program, check out the Web site www.breaststrokes.org or call Richards at Ext. 2742.

BY STACEY CURRY GUNN

Grad Launches Calendar to Promote Breast Health

Forty per cent of net profits will go to breast cancer charity

U OF G GRADUATE Sue Richards wants to get Canadian women thinking more about breast health.

"There are more than 15 million female breast owners in Canada, and breast cancer is a risk for every one of them," she says.

Richards is helping to do her part by producing *Breast of Canada 2002*, a calendar that promotes breast health. It features photos of women of varying ages, shapes and sizes, including Richards and three other Guelph graduates.

"We don't see images of naked breasts in a health context enough in our world," she says.

The calendar, which will be on sale in the University Centre courtyard Oct. 17 to 21, was designed to encourage breast health practice and cultivate a positive body image. It includes written and pictorial instructions on how to do a monthly breast

self-examination, as well as helpful information about breast health each month. Cost is \$24.95, with 40 per cent of the net profit going to Breast Cancer Support Services.

Richards, who founded the Guelph community arts program Art Jam, came up with the idea for the calendar after she realized she was doing her own monthly breast exams incorrectly. She says she was shocked, scared and then angry. "This inspired me to do some breast health and breast cancer research," she says.

The calendar's photographs were taken by Guelph artist Melanie Gillis and feature "regular" women ranging in age from 18 to 58. Two of the women were photographed with their children, and one posed while pregnant.

"These are just photographs of breasts being breasts," says Richards,

adding that after hitting up all her friends and acquaintances to pose for the calendar, it dawned on her that she should take part in the project as well.

"I felt very brave afterwards," she says. "The most profound moment for me was at the printers when my breast was coming through the printing press to the tune of 20,000 copies and they were piling up around me and no one knew it was

me. I felt like I knew the biggest secret in the world. It was hilarious."

Richards says the point is that all women should learn to look at their breasts from a health perspective and learn to "make friends" with their bodies. "A lot of powerful female energy is wasted obsessing over body image."

Since the calendar's official launch last month, more than 2,000 copies have been sold. Richards is al-

ready planning *Breast of Canada 2003*.

"We're not going to be short of models for this one," she says. "Women are already coming up to me asking if they can be in the calendar."

For more information, visit the Web site www.breastofcanada.com or call 767-0142.

BY LORI BONA HUNT

@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline	Publication Date	Deadline
Oct. 31	Oct. 22	Dec. 12	Dec. 3
Nov. 14	Nov. 5	Jan. 16	Jan. 7
Nov. 28	Nov. 19	Jan. 30	Jan. 21



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New members are welcome. The entrée program begins as soon as the membership card is issued. Application forms are available at the bar.

Polanyi Prize to Be Presented Nov. 14

Continued from page 1

Svensson's primary area of expertise is gamma-ray spectroscopy, which he uses to study the properties of the atomic nucleus.

"At the most fundamental level, I am just trying to understand the way nature works," he explains. "I study how nuclei behave by looking at the high-frequency light, or gamma rays, emitted by the nucleus of the atom. By studying this light, you can learn about the properties of the nuclear forces."

A native of Deep River, Svensson earned his B.Sc. and PhD degrees from McMaster University in 1995 and 1998. Following graduation, he headed for the Lawrence Berkeley National Laboratory in California as a Natural Sciences and Engineering Research Council post-doctoral fellow.

During his two years at Berkeley, he made important contributions to understanding collective motions and the occurrence of extreme deformations in light nuclei. "Our work provided some important insights into how the individual particles in the nucleus add up to produce the collective motion of the nucleus as a whole," he says.

His current research focuses on precision nuclear beta decay experiments that provide demanding tests

of human understanding of the most fundamental interactions of subatomic particles.

Svensson is U of G's second Polanyi Prize winner. In 1994, Prof. Elisabeth Nicol, also of the Department of Physics, won a Polanyi shortly after joining the University.

"Over the years, we have been able to recruit faculty of a very high quality," says department chair Prof. Ken Jeffrey. "I think this is because as a department, we are well respected within the Canadian context."

Svensson agrees. "There were a number of possibilities, but I was very impressed with the Physics Department here. It maintains a broad interest in a number of sub-fields of physics and has the collegial spirit necessary for the effective interaction of people from different groups."

Established in 1986, the Polanyi Prizes are awarded in recognition of the achievements of University of Toronto professor John Charles Polanyi, who won the 1986 Nobel Prize in Chemistry for his work in reaction dynamics. Svensson will officially receive his award Nov. 14 at a reception at Massey College in Toronto.

BY SUZANNE SOTO

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Upright European piano, good sound, like new, 823-2467 after 5 p.m. or yunchiu@sympatico.ca.

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1995 Eagle Talon ES1, automatic, air, power mirrors and windows, cruise, ABS, 148,000 kilometres, certified and e-tested, excellent condition, 824-5692.

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1991 Aerostar, 180,000 km, runs well, as is; Ikea pine dining table with four chairs; HP Laserjet 1100; desks; bookshelves; area rugs; apartment-size washer and dryer, 787-2797 or wfung@uoguelph.ca.

Double sofa bed, deluxe food dehydrator, Delta 10-inch table saw, all used once; NEC Versa LX Pentium 2 notebook computer, 837-1594 or dmohan@arts.uoguelph.ca.

Two tandem bicycles; Cannondale single-frame road bicycle with aero bars; Jack Taylor touring bicycle, Ext. 3721, 837-1732 or laid-lawm@uoguelph.ca.

Kenmore heavy-duty dryer and Maytag washer, good condition; pullout couch, like new; L-shaped beige couch, two pieces; three lawn mowers; two pine tables; double bed, frame wooden box with slats; wheelbarrow, Roto-Tiller, Weed Eater, all in good condition, Ext. 8793 or 846-9244.

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Winterized cottage for one weekend a month, November to May, Susan, Ext. 3003.

Furnished one-bedroom apartment from Nov. 2 to Dec. 28 for professor from Greece, close to campus and bus stop, must be on ground floor or have elevator, Sally, Ext. 6121.

Person wanted for part-time farm duties, milking experience a must, located close to town, 822-3147 or 822-3148.

Bachelor or basement apartment with parking for mature female student seeking sublet from January to April 2002, 836-7472 or daisy2722@hotmail.com.

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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue Oct. 21 with "Fall Discovery Tour" and Oct. 28 with "Halloween Hike." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

Interpretive naturalist Erin Harkins offers a workshop on stone wrapping Nov. 8 from 6 to 8:30 p.m. Cost is \$43. Registration and payment are required by Oct. 25. On Nov. 14 at 6 p.m., Harkins leads a workshop on "Window Webs." Cost is \$43. Register by Oct. 31. For more information, call Ext. 4110.

Naturalist Chris Earley presents a workshop on gulls Nov. 7 from 9 a.m. to 4 p.m. Cost is \$65. Registration and payment are required by Oct. 31.

"Signs, Tracks and Finds," a hands-on workshop for the whole family, runs Nov. 17 from 1 to 4 p.m. Cost is \$18 for adults, \$9 for children or \$40 for a family of four. Registration and payment are due Nov. 2.

The Arboretum's Theatre in the Trees presents the comedy *Ghost of a Chance* by Flip Kobler and Cindy Marcus Saturdays from Nov. 3 to Dec. 15. Doors open at 6 p.m., the buffet is at 6:30 p.m. and showtime is 8 p.m. Cost is \$49. To order tickets or to reserve special seating, call Ext. 4110.

ART CENTRE

The Macdonald Stewart Art Centre is offering commissions to create a series of unique benches for the Donald Forster Sculpture Park. Artists interested in being considered should send their résumé and images of their work (slides, photographs or digital reproductions) to the Sculpture Park Commission, Macdonald Stewart Art Centre, 358 Gordon St., Guelph N1G 1Y1 or by e-mail to msac@uoguelph.ca. Artists will be selected by a jury consisting of art centre director Judith Nasby, Prof. Chandler Kirwin, Fine Art and Music, and local artist Lois Bette-ridge.

The art centre's annual "Framed" exhibition, featuring frames turned into works of art by 40 prominent artists, continues until Nov. 10, when the works will be auctioned off. Tickets for the auction party are \$35 and are available at the art centre information desk and at the Framing and Art Centre.

Dundas artist Andrew Hunter gives a curator's talk on his commissioned sculpture *In the Pines*, which will be installed in the Donald Forster Sculpture Park in November, as well as other curatorial projects.

The art centre holds its annual general meeting Nov. 1 at 7:30 p.m.

ATHLETICS

The Gryphon volleyball teams are at home to Wilfrid Laurier University Oct. 17 and York University Oct. 26, with the women playing at 6 p.m. and the men at 8 p.m.

The men's basketball Gryphons host the University of British Columbia Oct. 19 at 8 p.m. and Simon Fraser University Oct. 21 at 2 p.m.

The women's hockey team hosts McGill Oct. 20 at 2 p.m. and Windsor Nov. 2 at 7:30 p.m. The men's hockey team is at home to Ryerson Oct. 25, Toronto Oct. 27 and Waterloo Nov. 1. The games begin at 7:30 p.m.

The Gryphon soccer teams are at home to Laurier Oct. 20 and McMaster Oct. 21. Game times are 1 p.m. for the women's team and 3 p.m. for the men's.

U of G's men's lacrosse team hosts Toronto Oct. 20 at 1 p.m. and Laurier Oct. 21 at 1 p.m. The women's team plays two home games Oct. 21 — at 10:30 a.m. against Brock and at 3 p.m. against Toronto.

U of G hosts the OUA cross-country championships Oct. 27 at 1 p.m..

CONCERTS

The Thursday noon-hour concert series continues Oct. 18 with soprano Lita Classen and pianist Allan Behan, Oct. 25 with guitarist Ken Aldcroft and Nov. 1 with the Orchard Ensemble. The concerts are held in MacKinnon 107.

LECTURES

The School of Fine Art and Music's visiting speaker series kicks off for the fall semester with talks by Myrel Chernick, a video installation artist from New York, Oct. 17 and Ed Pien, a drawing media artist from Toronto, Oct. 31. The talks begin at 12:30 p.m. in MacKinnon 114.

Prof. Carlton Giles, Pathobiology, gives OVC's 2001 Schofield Memorial Lecture Oct. 18 at 2:30 p.m. in OVC 1714, discussing "Living With *E. coli*."

Nafis Sadik, former executive director of the UN Population Fund and currently special adviser to the UN secretary general, will give the ninth annual Hopper Lecture Oct. 23 at 7:30 p.m. in MacNaughton 113. Her topic is "Investing in Peace: Demography, Gender and Reproductive Health." Sadik is also guest speaker in the Rural Studies Colloquium Series Oct. 23 at 2 p.m. in UC 442. She will discuss gender and reproductive health. Everyone is welcome.

Globe and Mail science writer Stephen Strauss, a Guelph-Donner Fellow, discusses "You Are What You Don't Eat — Idi Amin, Termites

and Your Mother's Feces" Oct. 23 at 1:30 p.m. in Macdonald Hall 149.

NOTICES

The Veterinary Teaching Hospital operates a Wellness Clinic for pets Friday afternoons and Saturday mornings. For information about fees or to book an appointment, call Ext. 4198.

The "Beyond Graduation: Educational Opportunities Fair" runs Oct. 23 from 11 a.m. to 2:30 p.m. in the University Centre courtyard and UC 103. Representatives from more than 70 professional institutions, universities and colleges will attend.

The Stress Management and High Performance Clinic is offering a program on managing headaches beginning Nov. 6. The four-session program meets Tuesday nights from 7:30 to 9 p.m. in UC 390. Cost is \$20 for U of G students, \$60 for others. For more information, leave a message at Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

The Citizenship Working Group will begin its bimonthly meetings Oct. 24 at 3:30 p.m. in the Central Student Association boardroom on UC Level 2. Anyone interested in promoting and supporting activities that encourage concerned, informed, active participation in our communities is welcome to attend. For more information, call Ext. 4407 or 4362.

The Ministry of Higher Education and the Universities of the Republic of Cuba will host the Third International Convention on Higher Education, "Universidad 2002," Feb. 4 to 8 in Havana. The theme is "The University in the New Millennium." For more information, send e-mail to Carlos Alberto Vigil Taqacheal at proy@reduniv.edu.cu.

The Ecumenical Campus Ministry presents its annual hymn sing Oct. 21 at 3 p.m. at St. George's Church. For more information, call Ext. 2390.

Human Resources will continue to take registrations throughout the semester for the faculty and staff development opportunities it offers. Openings still exist in a variety of courses, including some computer workshops, health and safety programs and two sessions offered by Communications and Public Affairs — "Dealing With the Media" and "Effective Promotional Writing." The programs are listed on the Web at www.uoguelph.ca/HR/training/index.

SEMINARS

The Department of Chemistry and Biochemistry presents McMaster professor emeritus John Warkentin discussing "New Intra- and Inter-molecular Reactions of Dialkoxycarbonyls" Oct. 17 at 3:15

p.m. in MacNaughton 222.

The fall biochemistry seminar series continues Oct. 18 with Prof. Brad Hanna, Biomedical Sciences, discussing "Ion Channel Diseases of Domestic Animals" and Nov. 1 with Sergio Grinstein of the Hospital for Sick Children Research Institute on "Regulation of Na⁺/H⁺ Exchange Activity and Its Role in Chemotaxis." The seminars begin at noon in MacNaughton 222.

The Department of Microbiology presents Sarah Highlander of Baylor College of Medicine in Houston, Texas, discussing "Genomic Analysis of *Mannheimia haemolytica*." Oct. 19 at 3 p.m. in Thornbrough 1307.

"Real Exchange Rate Fluctuations and the Dynamics of Retail Trade Industries on the U.S.-Canada Border" is the focus of Beverly Lapham of Queen's University in the Department of Economics seminar series Oct. 19. On Nov. 2, Bernard Beaudreau of Laval University considers "Engineering and Economic Growth." The seminars are at 3:30 p.m. in MacKinnon 237.

Next up in the Axelrod Institute of Ichthyology seminar series is zoology graduate student Kevin Parsons discussing "Getting Into Shape" Oct. 23. On Oct. 30, grad student Ben Clemens explains "Bladder Control Under Pressure." The seminars begin at 12:30 p.m. in Axelrod 168.

The Department of Physics presents Prof. Carl Svensson discussing "Testing the Electroweak Standard Model at Canada's Isotope Separator and Accelerator" Oct. 23 at 4 p.m. in MacNaughton 113.

The Guelph-Waterloo Physics Institute's Distinguished Lecturer Series features 1997 Nobel Laureate William Phillips of the National Institute of Standards and Technology in Gaithersburg, Maryland, Nov. 1 on the Waterloo campus. His topic is "Almost Absolute Zero: The Story of Laser Cooling and Trapping."

"Probiotics" is the focus of graduate student Joel Weadge in the Department of Microbiology graduate student seminar Oct. 26 at noon in Food Science 128.

TEACHING SUPPORT

Teaching Support Services' fall workshop series for campus instructors continues with "Designing for the Web: Good Practices" Oct. 19, "Burning CD-ROMs" Oct. 24, "Teaching With PowerPoint: Advanced" Oct. 25, "HTML II: Creating a Course Web Site" Oct. 29, "Designing and Implementing a Course Web Site" Nov. 2, "Producing Quality Video for Teaching" Nov. 7 and "Teaching With PowerPoint: The Basics" Nov. 8. Detailed descriptions are available on the

Web at www.tss.uoguelph.ca. Online registration is required.

THESIS DEFENCES

The final examination of PhD candidate Ryan Plummer, Rural Planning and Development, is Nov. 2 at 1 p.m. in FACS 103. The thesis is "Managing Natural Resources Together: A Model of the Co-Management Process." The adviser is Prof. John FitzGibbon.

The final examination of Guy Perry, a PhD candidate in the Department of Zoology, is Nov. 2 at 2 p.m. in Axelrod 265A. The thesis is "The Genetic Architecture of Thermal Tolerance and Correlated Growth-Related Traits in Rainbow Trout, *Oncorhynchus mykiss*." The adviser is Prof. Roy Danzmann.

COMMUNITY EVENTS

The Canadian Federation of University Women will hold an open meeting Oct. 23 at 7:30 p.m. at the OMAFRA Conference Centre, 1 Stone Rd. W. Prof. Mike Dixon, Plant Agriculture, will discuss "Taking Canadian Greenhouse Technology to Space and Back."

The Waterloo-Wellington Wildflower Society meets Oct. 17 at 7:30 p.m. at the Arboretum Centre. Bill McIlveen explores "The Flora of Kenya." Everyone is welcome.

The Guelph Arts Council's series of Sunday afternoon walking tours wraps up Oct. 21 with "Brooklyn and the College Hill," leaving from McCrae House at 2 p.m. Cost is \$2. For more information, call 836-3280.

The next meeting of the Wellington County branch of the Ontario Genealogical Society is Oct. 23 at 7 p.m. at the Unitarian Church, 122 Harris St. Guest speaker Glem Wright presents "They Came on the Caroline," the story of the Paisley Block settlers.

"How Old Is My House?" is the theme of a panel discussion sponsored by the Wellington County Historical Society at the Wellington County Museum and Archives Oct. 28 at 2:30 p.m. in Aboyne Hall. The museum's gallery concert series continues Oct. 28 at 2 p.m. in the Great Hall.

Guelph Little Theatre presents Stephen King's *Misery* for 10 performances between Oct. 18 and Nov. 3. For ticket information, call 821-0270.

A group of Guelph citizens planning an enabling garden in Riverside Park for people with disabilities will hold a workshop Oct. 18 from 7 to 9 p.m. at the Evergreen Seniors Centre, 683 Woolwich St., to present drawings and gather community input. For more information, call 763-2804.

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- 7 **FINE** art prof finds beauty in the banal.

Lest We Forget

Chancellor to speak at Remembrance Day Service

U OF G WILL HOLD its annual Remembrance Day Service Nov. 9 from 10:45 to 11:20 a.m. in War Memorial Hall.

Chancellor Lincoln Alexander will speak at the service, which will also include music by the U of G Chamber Singers, a wreath ceremony, a visual presentation titled *The Norman Summer*, prayers and readings.

A special symbol of the University's history — a silver rose bowl filled with red roses — will sit at the front of the hall during the service. It was donated by Guelph graduate Kathleen Dowler Riter in honour of a friend and faculty member, RAF Captain John Playford Hales, who was killed in France in 1918.

War Memorial Hall commemorates students who served in the First and Second World wars. The memorial chamber between the two entrances contains two stained-glass windows designed by renowned Toronto artist Peter Haworth.

The cornerstone for War Memorial Hall was laid in August 1923, and the building was dedicated June 10, 1924. It was a student initiative made possible by financial contributions from faculty, alumni, government and the public.

Although classes will not be cancelled for the service, president Mordechai Rozanski requests that faculty grant consideration to students who miss some class time to attend the service. Supervisors are encouraged to allow employees sufficient time to participate as well.



WHO'S UNDER HAIR?

Guess who's going to give up his locks to support the campus United Way campaign? Halloween tricks aside, you can join the fun at noon today in the University Centre courtyard. Revenue Control staff have collected more than \$500 to ensure their boss remembers this Halloween. Tanya Loughran of Tangles will execute the head shave. Other campus United Way fund-raisers include a dinner and magic show sponsored by Hospitality Services Nov. 9 at 7:30 p.m. (call Ext. 2353 for details), a penny sale Nov. 8 in Communications and Public Affairs on Level 4 of the University Centre, raffles sponsored by Student Health Services (Ext. 6286) and the Department of Economics (Ext. 6337 or 3273) and a CSAHS chili luncheon Nov. 7 at noon in the FACS lounge.

PHOTO BY MARTIN SCHWALBE

UGFA Awards Honour Excellence

Seven recognized for outstanding achievement in teaching, academic librarianship

THE U OF G FACULTY Association presented its annual awards for excellence in teaching and academic librarianship Oct. 25.

Six faculty members and one librarian were honoured for outstanding achievements in their respective disciplines. The teaching awards, established in 1984, are made on the basis of student evaluations, letters of support from students and colleagues, and the recipients' contributions to curriculum development.

"These are the men and women who not only inform but, more important, inspire their students," says UGFA president Prof. Thom Herrmann, Psychology.

Recipients of the Distinguished Professorial Teaching Awards are people who make a difference both to their profession and in the lives of their students by ensuring the best instruction and research.

Prof. Peter Goddard, History, received the teaching award for the College of Arts. "He is an absolutely committed teacher," wrote one supporter, "and this commitment shows in the quality of his preparation for the classroom and the level of care that he takes in creating an effective learning environment."

Prof. Pat Wright, Zoology, received the award for the College of Biological Science. She was honoured for her ability "to make even the most complex physiological systems easy to understand for students."

The award for the College of Physical and Engineering Science went to Prof. John Holbrook, Mathematics and Statistics. "It continues to amaze me that he is able to present abstract and subtle ideas in an interesting and accessible way to non-specialists and, at the same time, challenge the experts in the audience," a nominator wrote.

Prof. Rick Upfold, Plant Agriculture, received the award for the Ontario Agricultural College. He was recognized for his dynamic teaching style and his wealth of experience, which "results in a learn-

ing experience unparalleled in the undergraduate agriculture program."

UGFA also presented two Special Merit Awards, which recognize those who have shown innovation in the development of their teaching.

Prof. Bill Smith, Mathematics and Statistics, was honoured for going out of his way to stay on top of technology, incorporate it into his classroom and help his colleagues to do the same.

A Special Merit Award also went to Prof. Jim Mottin, Psychology. A supporter wrote: "Never

before has someone taught anything with so much passion and inspiration. I understand, learn and want to know even more."

UGFA's Academic Librarianship Award recognizes someone who has made a significant contribution to scholarly achievement in the academic community. David Hull, a librarian in the science and technology section who works in the OVC Learning Commons, was honoured with this award for his professionalism and effective practical service orientation.



Six of this year's UGFA award winners gather for a photo. In front row, from left, are Profs. John Holbrook, Peter Goddard, Pat Wright and Jim Mottin. At back are David Hull and Prof. Bill Smith. Absent is Prof. Rick Upfold.

PHOTO BY MARTIN SCHWALBE



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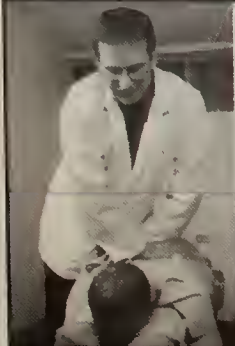
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SENATE REPORT

Two More University of Guelph-Humber Programs Approved

PROVOST ALASTAIR SUMMERLEE began the Oct. 23 meeting of Senate by reading a letter to the University community from president Mordechai Rozanski, who was unable to attend. In the letter, Rozanski thanked members of the University for their collective response to a recent anthrax scare on campus

(the letter also appears in this issue of @Guelph on page 8).

Summerlee also informed senators that a Web site for a zoology course called "Humans in the Natural World" had won first prize in the single course category of the North America Web Awards.

TWO GUELPH-HUMBER PROGRAMS APPROVED

Two more joint degree/diploma programs to be offered by the new University of Guelph-Humber venture were approved by Senate — applied gerontology and early childhood services.

Responding to questions from the Senate floor, Prof. Michael Nightingale, Guelph-Humber's vice-provost (academic), said that, in principle, teaching of the programs will be shared equally between faculty at Guelph and Humber. Current U of G faculty will have the option of teaching at Humber if they wish; incoming Guelph faculty might be expected to teach one or two courses at Humber as part of their employment agreement with the University. The Guelph-Humber initiative is expected to generate 100 new faculty positions, Nightingale added.

Some of the innovative ways courses could be taught include through long distance and video-linked classrooms, he said. Guelph faculty will also provide office hours to students at Guelph-Humber, with some of those hours offered through video links.

DISTANCE EDUCATION ENROLMENTS UP

Senate received for information a report on distance education course enrolments from the Senate Committee on Open Learning.

The report notes that enrolments have experienced significant growth over the past year. In summer 2001, distance registrations totalled 4,909, of which 4,424 were U of G degree program students and 485 were non-degree learners. This represents an 11-per-cent increase over summer 2000 enrolments, the report says.

This semester, distance enrolments are 3,745 — 3,143 of which are U of G students and 602 are non-degree learners. This represents growth of 98 per cent on the degree side and 73 per cent in the non-degree program over last fall.

Some of the reasons for this growth, the report adds, are that more distance education courses are being offered, degree students take these courses in fall and winter for the flexibility and convenience they offer, and the vast majority of distance courses are now conducted online and are much more engaging and interactive.

HABA DEGREE RENAMED

Senators approved a request from graduates of the School of Hotel and Food Administration's master of management studies program to change their degree designation from MMS to MBA.

TOWARD 2010

Designing the Campus of the Future

ERECTING A U of G welcome centre at the corner of Gordon Street and Stone Road, easing traffic congestion outside the University Centre by diverting buses to a secondary site, and extending Reynolds Walk across Gordon to Edinburgh Road were just some of the ideas proposed at the first town hall meeting on the campus master plan review.

More than 80 U of G students, faculty, staff and alumni attended the Oct. 17 meeting, with about 60 staying on to participate in an intense design session that followed it. Both the town hall and design sessions are part of the extensive campus consultation process that has become synonymous with the master plan review process. To date, more than 25 meetings on the review have been held with stakeholder groups and individuals.

Mary-Elizabeth Flynn, a member of the Physical Resources and Property Committee of Board of Governors and chair of the Campus Master Plan Steering Committee, welcomed members of the University to the town hall meeting.

Provost Alastair Summerlee told

participants that planning for the physical landscape of the campus is a crucial component of planning for student growth, academic development and the institutional support services needed to facilitate these changes. But although academic plans may last five years, a revised campus master plan will set the context for the University for the next 50 years, he said. As such, "it is absolutely the task for the strategic thinker."

Following a presentation by Roger du Toit of du Toit, Allsopp, Hillier, the consultants hired by the University to help steer the master plan review, participants divided into small groups, and each group chose a particular campus planning issue to discuss. The following are just some of the suggestions from each group.

CAMPUS ROAD SYSTEM

To make the campus more pedestrian-friendly, this group suggested that Reynolds Walk become a large pedestrian mall by removing the existing road and that Powerhouse Lane be limited to

service vehicles only. Traffic on South Ring Road could be slowed down with stop signs and speed bumps, using pedestrian paving materials and generally making it more pedestrian-friendly.

It was also suggested that the core campus needs more temporary parking and pick-up/drop-off spots to ease traffic congestion outside the UC. The portion of Trent Lane by the new classroom complex could be removed and Parking Lot 5 behind Blackwood Hall and the Fire Hall could become a secondary drop-off location.

WALKWAYS

This group proposed that campus walkways be redesigned to make winter maintenance easier and that stairs be replaced with ramps.

It also suggested extending Reynolds Walk to the Arboretum and realigning Arboretum Road with the north entrance to P12 by the Powell Building, to improve access to East Residences and the U of G Child-Care and Learning Centre. On the west side of campus, Reynolds Walk

Continued on page 10



Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
lgraham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Acting Director Chuck Cunningham
c.cunningham@exec.uoguelph.ca

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RECEPTION HONOURS FACULTY MEMBERS

President Mordechai Rozanski invites the University community to a reception Nov. 12 to honour the achievements of three faculty members — Prof. Fred Evers, Sociology and Anthropology, recipient of a 3M Teaching Fellowship; Prof. John McMurtry, Philosophy, who was named a Fellow of the Royal Society of Canada; and Prof. Carl Svensson, Physics, winner of the John Charles Polanyi Prize. The reception runs from 4:30 to 6 p.m. in the Whippletree. RSVP by Nov. 2 to Agnes Allen at Ext. 6542 or a.allen@exec.uoguelph.ca.

HAFAGRAD RETURNS AS EXECUTIVE-IN-RESIDENCE

1975 B.Comm. graduate Joseph van Koevorden, president and CEO of the Saskatchewan Gaming Corporation and Casino Regina since 1999, visits campus Nov. 3 to 8 as executive-in-residence in HAFAGRAD. Before moving to Saskatchewan, van Koevorden was the national tourism and trade co-ordinator with Aboriginal Business Canada. While on campus, he will give in-class lectures and meet with faculty and students. He will also give a public lecture Nov. 6 at 9 a.m. in Room 121 of the HAFAGRAD Building.

INDIA SEMESTER POSTPONED

Because of concerns about sending U of G students to South Asia at this time, the University has postponed the India semester for winter 2002. The Centre for International Programs (CIP) has taken steps to ensure that all students scheduled to go to India will not be disadvantaged in terms of their academic programs. CIP director Prof. Jim Shute says the centre is in touch with all the students affected and is discussing academic options with them, including rescheduling of the India semester.

NEW LOCATION SET FOR VIDEO CONFERENCE

A new location has been announced for "Visionary Seminar 2001," a free video conference to be hosted Nov. 7 by the Office of Open Learning in collaboration with the Office for Partnerships for Advanced Skills. It will now be held at the River Run Centre, beginning with a complimentary lunch at 11:30 a.m. The video presentation, sponsored by Bell Canada, begins at 12:15 p.m. and features Mike Lazaridis, president and CEO of Research in Motion. Advance registration is required at 767-5000.

RALLY SLATED FOR NOV. 5

The Ontario Coalition Against Poverty will stage an anti-poverty rally in Guelph Nov. 5. It will include a march on Gordon Street beginning at 7 a.m., shutdowns and economic disruptions starting at 7:30 a.m. and a noon rally on U of G's Branigan Plaza. Members of the University community are advised that the event may result in some disruption of campus activities.



A PROUD MOM

Heather Chernets of Hamilton, left, celebrates her daughter Magenta's convocation from the College of Arts Oct. 16. Magenta, who graduated with a general BA, was one of more than 550 students to receive degrees and diplomas during fall convocation. The University also awarded honorary degrees to Donald Woods, a chemical engineering professor at McMaster University, and Michel Laroche, a marketing professor at Concordia University. Laroche's convocation address is reprinted on page 6.

PHOTO BY MARTIN SCHWALBE

University Offers Training, Advice on Suspicious Mail

Contents of some questionable letters have turned out to be harmless

IT'S BUSINESS AS USUAL at the Food Science Building, including the Guelph Food Technology Centre wing, after the Ontario Ministry of Health determined that a powdery substance found in an envelope sent to a U of G employee was ink powder.

The University closed the Food Science Building on the evening of Oct. 15 after learning of the incident from City of Guelph officials. The decision was a precautionary measure pending the results of laboratory testing, says Nancy Sullivan, vice-president (finance and administration). Because the letter had been received several days earlier, there was concern that the substance could have entered the building's air-handling system, she says. Classes and mid-terms were moved to other locations until the building reopened Oct. 18 at 6 a.m. City of Guelph police continue to investigate.

"Anxiety levels were understandably high given recent world events and the media reports of anthrax in the United States," says Sullivan. "The University is committed to ensuring the highest level of safety and mental well-being for our employees, so we decided to take extra precautions even though there have been no confirmed anthrax cases in Canada."

On Oct. 16, Sullivan and provost Alastair Summerlee, along with the University's occupational health physician, Security Services and members of the Wellington-Dufferin-Guelph Health Unit, held a town hall session to give students and employees who normally work or study in the Food Science Build-

ing information about the reason for the building's closure and to respond to any questions or concerns.

The University has sent out a campus-wide bulletin and posted on its Web site information about how to detect and handle suspicious letters and packages. In addition, University police and Environmental Health and Safety staff have provided training sessions on identifying and dealing with suspicious mail for mailroom staff and others handling mail on campus. Any department interested in having such a session should call community liaison officer Robin Begin at Ext. 6261.

The University is also providing services for concerned employees through the Employee Assistance Program, and help is available to students through the Counselling Centre.

In the past couple of weeks, Security Services has received a few calls about questionable mail and has collected several letters, says director Keith McIntyre. In some cases, the letters have been secured and stored. In other cases, University police have been able to identify the sender and determine the mail contents.

"In one instance, there was a return address but no name on the envelope, and it turned out to be a thank-you note with a luggage tag," he says. Most recently, a campus employee received a letter, but was unable to decipher the name of the sender. McIntyre and others were able to locate the sender in the United States (a former student) and confirm that the contents were cottonseeds the sender thought would be of interest to the employee.

Anyone on campus who receives a letter with no name in the return

address can easily determine the name and phone number by using a reverse address/telephone directory available on the Internet at www.reversephonedirectory.com (U.S. addresses) and www.infospace.com/canada/reverse_ca.htm (Canadian addresses). It was this system that enabled U of G police to contact the senders and determine that the contents of the two letters mentioned above were harmless.

McIntyre adds that campus police are asking people who receive mail they're uncomfortable handling to contact their supervisor or call Security Services. He added that people should keep in mind that the University receives about 10,000 pieces of mail through Canada Post each day.

"So we're asking people to run through their own checklist, such as looking at a letter and package and asking themselves questions such as: 'What's different about getting this letter this week as opposed to last week?'"

He also suggests that so-called junk mail be left unopened and thrown away immediately. A detailed list for identifying suspicious mail is posted on the University police Web site at www.uoguelph.ca/security or can be obtained by calling Security Services.

Summerlee adds that the recent events have proven to be a learning experience and that the University collected helpful suggestions from employees and students during the information session.

"They were truly information-exchange discussions and greatly appreciated. The entire University community should be commended for its patience and support."

BY LORI BONA HUNT

PEOPLE

WRITERS HONOUR BENSON

At the 2001 annual general meeting of the Writers' Union of Canada, University professor emeritus Eugene Benson, Literatures and Performance Studies in English, was named a life member in recognition of his many years of outstanding contributions to the union's work.

LAING NAMED FELLOW

Retired professor John Laing of the Department of Environmental Biology was inducted as a Fellow of the Entomological Society of Canada during its national meeting this month in Niagara Falls. Laing is a former president of the society.

B OF G MEMBER HONOURED

Board of Governors member Rita Burak was recently awarded the Lieutenant-Governor's Medal of Distinction in Public Administration for distinctive leadership in public administration in Ontario. Burak, who joined B of G this fall, is president and CEO of Network Executive Team Management Consultants in Toronto.

GRAD STUDENT WINS AWARD

Jane Shearer, a PhD student in the Department of Human Biology and Nutritional Sciences, received a Young Investigator's Award to attend the Federation of American Societies for Experimental Biology's conference this summer in Vermont. Shearer's adviser is Prof. Terry Graham.

VOICE STUDENT RECOGNIZED

This year's winner of the School of Fine Art and Music's Mary Alice and Marion Munn Entrance Scholarship in Voice is Dana Turner, a B.Sc. student who is studying voice in the school. She is a graduate of Eastwood Collegiate Institute in Kitchener.

CIP DIRECTOR SPEAKS

Prof. Jim Shute, director of the Centre for International Programs, spoke at the 15th anniversary of the University of Calgary's International Centre Oct. 18. His topic was "Modelling/Remodelling University Internationalization."

APPOINTMENTS

Leonid Brown of the University of California at Irvine will join the Department of Physics as assistant professor April 1, 2002.

Dalia Fayek of Kitchener will join the School of Engineering as assistant professor Jan. 1, 2002.

Stefan Gröschl of Oxford Brookes University in Britain will join the School of Hotel and Food Administration as assistant professor Nov. 1.

Richard Mosser of the National Research Council joined the Department of Molecular Biology and Genetics as associate professor Sept. 1.

Yiguo Sun of the University of Toronto joined the Department of Economics as assistant professor Sept. 1.

Faculty Recognized

FORTY U of G faculty received President's Distinguished Professor Awards in 2001. The awards are for outstanding performance in one or a combination of the following: teaching, research and service.

"I am proud to recognize the achievements of these individuals who make such significant contributions to the overall activities and reputation of the University," says President Mordechai Rozanski. "Their dedication to excellence enhances Guelph's reputation as a learner-centred, research-intensive University."

The 2001 President's Distinguished Professors are:

College of Arts: Elizabeth Ewan and Terry Crowley, History; Stephen Henighan, Languages and Literatures; Judith Thompson and Alan Filewod, Literatures and Performance Studies in English; Jay Newman, Philosophy; and Mary Cyr, Fine Art and Music.

College of Biological Science: John Klironomos, Botany; Terry Graham, Human Biology and Nutritional Sciences; Anthony Clarke, Microbiology; David Evans, Molecular

Biology and Genetics; and Moira Ferguson and John Fryxell, Zoology.

College of Physical and Engineering Science: Stefan Kremer and Deb Stacey, Computing and Information Science; Doug Joy, Engineering; Eric Poisson, Physics; Bill Langford, Mathematics and Statistics; and Nigel Bunce, Chemistry and Biochemistry.

College of Social and Applied Human Sciences: Fred Evers, Sociology and Anthropology; Mike Hoy, Economics; Heather Keller and Kerry Daly, Family Relations and Applied Nutrition; Barbara Morrongiello, Psychology; and Barry Smit and Bill Nickling, Geography.

Ontario Agricultural College: Claudia Wagner-Riddle and Les Evans, Land Resource Science; Peter Pauls, Plant Agriculture; Doug Goff and Heidi Schraft, Food Science; and Mary Buhr and Ian Duncan, Animal and Poultry Science.

Ontario Veterinary College: Alan King and Brenda Coomber, Biomedical Sciences; Don Trout, Clinical Studies; John Prescott and Dale Smith, Pathobiology; and Scott McEwen and Kate Dewey, Population Medicine.

Campus Vigil to Remember Victims of Hate Crimes

President lauds initiative for increasing awareness, acceptance of diversity

RESIDENCE LIFE STAFF are sponsoring a Hate Crime Vigil Nov. 1 at 7 p.m. at the Eccles Centre. The vigil, part of Queer Awareness Week, will include speakers, a multimedia presentation, lighting of candles and a walk across campus.

Residence adviser Kristen Roe, who is co-chairing the event, says it is being staged "in remembrance of people who have been hurt or targeted because of their identity. It is intended to increase awareness and educate."

President Mordechai Rozanski has been invited and plans to attend the vigil. He says this event and others aimed at increasing awareness and acceptance of diversity are important, particularly at a time when world events are fuelling occasional incidents of intolerance and hate on campuses and in communities around the world. The president, who is Jewish, has himself been a target of recent hate offences on campus. In August, a swastika was painted on the garage of the Presi-

dent's House, where he and his family live. Last week, several ethnic slurs directed at him were discovered in the U of G Library. Both incidents were reported to campus and city police and are under investigation.

"I am deeply saddened by all such incidents," says Rozanski. "I find these types of anonymous messages cowardly and repugnant, but I am confident they are isolated acts of intolerance and do not reflect the values of our community."

He says the closed-mindedness represented by such incidents is not only at odds with the underlying values of a democratic society. "It is also in conflict with the University's academic values, which focus both on the pursuit of knowledge, through an open and reasoned exchange of ideas, as well as on our commitment to promoting diversity."

Rozanski adds that "although incidents like these are clearly hurtful, when publicly exposed and con-

demned, they at least serve as reminders of why we, as members of the University community, cannot be complacent in defence of our fundamental values. Thus, among other things, we are developing a University human rights policy not just as an academic exercise, but also as an expression of our core beliefs and ideals. It is my hope that these hateful actions will prompt us to strengthen our resolve to promote our sense of campus community, including a commitment to civility and mutual respect. To this end, I applaud the initiative of the staff in Student Housing Services for organizing this important event."

Patrick Case, director of human rights and equity, agrees that awareness needs to be increased. He urges members of the University community to become more vigilant in recognizing hate offences and to take an active responsibility for reporting such incidents to the Human Rights and Equity Office or University police.

IN MEMORIAM

WILFRID BEAN

Wilfrid Bean, former vice-president (administration) at U of G, died in Guelph Oct. 18 at the age of 89. A BA graduate of the University of Western Ontario, he served with the RCAF in the Second World War, then held a variety of senior positions with the Canadian Forces until retiring in 1967 as chief of staff of the Fourth Allied Tactical Air Force in Ramstein, Germany. He joined U of G in 1970 and served as vice-president

until 1976. He is survived by his wife, Lorain; three children, Peter, Audrey and Frances; and two grandsons, David and Jeffery.

JERRY DICKINSON

Jerry Dickinson, an agricultural worker at the Department of Plant Agriculture's Elora Research Station, died in Fergus Oct. 20 at the age of 64. He joined the University in 1990. He is survived by his wife, Marg; three children, Mark, Tracy and Kelly; and two grandsons, Steven and Matthew.

Fall Preview Day Nov. 4

FALL PREVIEW DAY, U of G's largest on-campus recruitment event, runs Nov. 4 from 10 a.m. to 2:30 p.m. at the Mitchell Athletics Centre. The event is expected to draw close to 2,000 prospective students and parents, who will take campus tours, learn about academic programs and meet faculty and staff.

Events and activities include a welcome address by president Mordechai Rozanski and a panel discus-

sion featuring students, staff and faculty. The panel will address issues such as admissions, finances and scholarships, Office of First-Year Studies programs, student housing and the U of G community lifestyle.

The opening session runs from 10 to 11 a.m. in the gymnasium of the Athletics Centre, with campus tours running from 11 a.m. to 12:30 p.m. and a display session from 12:30 to 2:30 p.m. in the west gym.

For more information, call Effie Gatsinos in Admission Services at Ext. 6056.

On Oct. 28, the University of Guelph-Humber hosted a Fall Information Day at Humber College. Close to 300 potential applicants and family members attended the program, which featured information sessions, tours and a welcome from vice-provost, academic, Prof. Michael Nightingale.

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Neglected 18th-Century Writers Find a Champion

English scholar's two new books shed light on authors whose works fell on bad times

PROF. KEN GRAHAM seems to have a penchant for centuries-old writers who were a little too far ahead of their time.

It might be that he believes they were misunderstood during their lifetimes. The authors he studies lived independent lives and wrote about kinds of love and politics that were out of sympathy with their own times, the increasingly intolerant 1790s.

Or maybe the allure is simply that Graham is an English professor, and people who love reading and writing can't bear the thought of good literature going unnoticed or underappreciated for centuries.

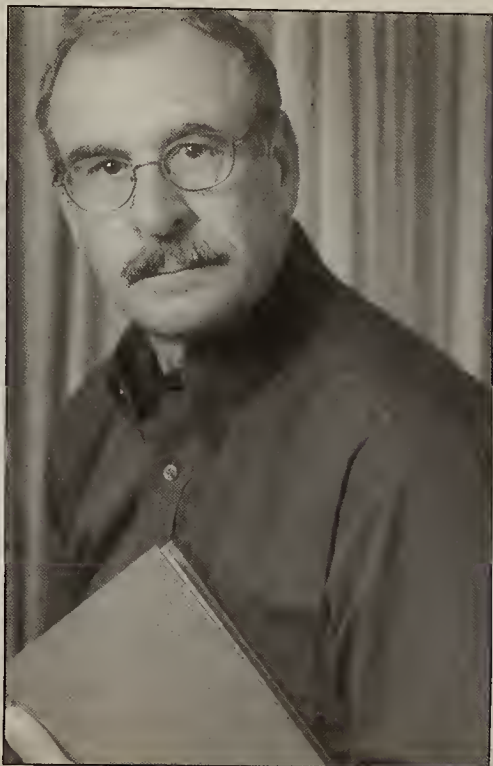
Whatever the reason, stirring up recognition for writers whose works fell on bad times has become Graham's passion. He has spent many a vacation and sabbatical combing the dusty shelves of library basements and archives, looking for forgotten writings and uncovering mysteries about authors such as William Thomas Beckford and William Godwin. He pored over their 200-year-old manuscripts — often written in nearly illegible penmanship — and, in the case of Beckford, has taken on the painstaking task of translating the work into English.

Graham's efforts were rewarded this year with the publication of two books on his favourite victims of in-un-do and martyrs to prejudice — Beckford and Godwin. He also fulfilled a career-long ambition to teach abroad, spending a year on exchange at a German university. And he even managed to inadvertently convert an entire cohort of new admirers of misunderstood writers to carry on his work here at Guelph.

"I have only a couple of years left before I retire, and I'm hoping to make new material available for future scholars to draw on," says Graham of his research. "As for why I've chosen to study people such as Beckford and Godwin, well, I certainly believe that both were treated unjustly during their lifetimes and neglected or misrepresented as a result. I wanted to get beneath the surface of what really happened, why they were treated the way they were, the effect it had on their writing. I wanted to better understand the times in which they wrote, why it seemed the people around them went out of their way to be unfair."

His first step was to try to understand Beckford, a seemingly impossible task. The Gothic and oriental novelist is best known for his book *The History of the Caliph Vathek*, but even that work suffered from innuendoes about his eccentric lifestyle.

It's rumoured that the wealthy Beckford had a romantic liaison with an adolescent boy while the author was on his honeymoon. He and his wife withdrew to Switzerland, where he worked on a sequel, *Episodes of Vathek*. There, within two years, he was shaken by two blows: his wife died in childbirth and a translation of Vathek (which he wrote in French) was published in England without his knowledge or permission but under his name.



Prof. Ken Graham has spent many a vacation and sabbatical combing library archives for forgotten writings. PHOTO BY MARTIN SCHWALBE

A third blow came soon after. Britain's war with the French revolutionary government forced him to return to England and ostracism. He put his energies into building and furnishing his neo-Gothic extravaganza, Fonthill Abbey, which doubled as his home but later collapsed. He sequestered himself behind the estate's high stone wall, but did little more new writing.

"The scandal happened in 1784, a time when homosexual practices could be punished by death," says Graham. "For Beckford, it meant social banishment. It haunted him for the rest of his life."

Two years ago, Graham made media headlines when he uncovered a missing piece of Beckford's work in a 200-year-old manuscript. While going through some of Beckford's original writings in Oxford, he discovered a story, the first in the *Episodes of Vathek*. The *Episodes* tells stories of the damned, and this particular story was the tale of a torrid love affair between a king and a young prince. It differed from a version later published in which the prince turns out to be a princess. Graham thinks Beckford wrote the original story around the time he was involved with a young man, but after the scandal broke, he changed the story to get it published.

Graham translated that lost episode and went on to do something Beckford always wanted: to publish a book that combined *The Episodes* and *Vathek* in one novel. *Vathek With the Episodes of Vathek* was published this spring, edited by Graham. It includes the original version of the

love story between the king and prince.

"He never could have published that story during his lifetime," says Graham. "People would have jumped on it, and the scandal would have been revived."

Cultural and society standards of acceptability in the 1700s and how they have changed — or haven't

changed — over time is also what drew Graham to his research on Godwin. And that work has resulted in the publication this year of *William Godwin Reviewed*, a collection of reviews of Godwin's works between 1783 and 1834.

Known as the founder of philosophical anarchism, Godwin argued that government was the corrupting force in society, perpetuating dependence and ignorance. Like Beckford, he raised eyebrows in numerous social circles with both his writing and his personal life. His wife, Mary Wollstonecraft, died soon after giving birth to their daughter, Mary. Later on, Godwin befriended writer Percy Bysshe Shelley, who eloped with the teen-aged Mary. Mary Shelley went on to write *Frankenstein*.

"Godwin got on the wrong side of society at the wrong time," says Graham. "It was during the time the government was at war with the French revolutionary government. The reviews of his work show how society changed its attitude about Godwin as political situations changed. At first, the reviewers show great respect for Godwin's work, but gradually, it diminishes and is replaced, in some instances, by vicious attacks."

Both of Graham's books were published while he was on a teaching exchange at the University of Konstanz in Germany. While abroad, he also managed to keep working on his next Beckford project — producing a two-volume scholars' edition. Four current and former student research assistants, who are as crazy about Beckford as he is, painstakingly transcribed microfilms of Beckford's French, sending them to Graham in Germany for him to check against the manuscripts in Oxford. Their

passion and enthusiasm, Graham admits, is nothing short of a miracle.

The team of researchers have dubbed themselves the League of Industrial Beckfordians and have set up shop in an office in the McLaughlin Library, where they pore over photocopied passages of Beckford's handwritten manuscripts, translating often obscure and illegible French into a computer text that can be read and published.

"There's something magical about working with manuscripts," says Graham. "You're looking at materials that only the author had seen 200 years before. But it's very, very tricky work. If you get one wrong letter or even a carelessly penned accent, you can mistake a word or a tense. But the students are meticulous; they check everything again and again."

Of course, someone who has dedicated much of his career to studying this author would never be content to publish carelessly translated material. Graham has a contract for a scholarly edition of *Vathek* with the *Episodes of Vathek*, one volume in the original French and one volume in English translation. He plans to draw on the texts and manuscripts written in the traumatic 1780s, but show each stage of the revisions and comment on the how and why of the changes.

"Much of Beckford's published work reproduces manuscripts he re-wrote towards the end of his life, when he was desperate to have his works circulated," says Graham. "They were written when Beckford was part of another world, and they reflect the caution of an old man in his 70s. My edition will feature what a brash and audacious young Beckford wrote in the 1780s."

BY LORI BONA HUNT



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LOOK BACK, LOOK AHEAD, KEEP AN OPEN MIND

*"Make good use of your education, make the right decisions at future crossroads,
and be prepared to seize any opportunity that comes your way"*

BY MICHEL LAROCHE

Editor's note: During fall convocation ceremonies this month, U of G bestowed an honorary doctorate of science on Michel Laroche, a marketing professor at Concordia University. This is an edited version of the address he gave to students graduating from the College of Social and Applied Human Sciences.

WHEN I FIRST LEARNED that I had been selected for this doctorate of science honoris causa, I was surprised and elated, until I discovered that Kermit the Frog received an honorary degree from Long Island University in 1996. This led me to reflect on two questions: why me and why Kermit? I will attempt to elaborate on both questions.

My first reaction was to look back on the road I have travelled and why I am here now before you. One compelling fact that emerged is that I have been helped by many people along the way, in addition to my wonderful parents. Because it would take too long, I will credit only a few people.

First is the mathematics professor in high school, a stern individual, who insisted that I go on a regular basis to the front of the class to solve some maths problems on the blackboard. Of course, being shy, I froze and was unable to comply. Patiently, he kept insisting until I gradually became more comfortable and able to perform in public. As I remember, he never explained what he was doing, so I thought he was picking on me. But now I understand that I would have been unable to pass the crucial oral exams that were to come in following years had he not prepared me in this manner.

Next is my late uncle, who really loved knowledge and science and who kept pressing me to learn and to excel. When I finished high school, he arranged for me to study maths and engineering in the best schools in Paris and sent me money regularly to supplement my scholarship from the French government. Of course, I am grateful to France for a great education and for helping me financially to study in France and in the United States, and to my wonderful wife, Anne, for her constant support during the last 31 years.

In Paris, I was privileged to study under Claude Hagege, who opened my mind to the study of linguistics. He was a struggling doctoral student at the time and became famous much later. When I went to Columbia for my own doctoral studies, I was prepared to go into the social sciences, and another great man, the late John Howard, the father of consumer behaviour, initiated me into psychology and social psychology, mostly by telling me to go to the library and read some selected authors. Under his guidance, I wrote my dissertation as a mix of econometrics (which I learned from Carl Christ at Johns Hopkins) and social psychology applied to Howard's buyer behaviour model. I then became a marketing professor and have been working on consumer behaviour problems ever since. I was also privileged to study under Rufus Isaacs, the father of differential games, and to get to know Paul Lazarsfeld, Herbert Simon (a Nobel Prize winner), Philip Kotler, Sid Levy and many other



great minds. This is only a sample of the wonderful people who, in often unexpected ways, influenced my life.

I am sure you can all do the same exercise and reflect on the many family members, friends, high school teachers and university professors who helped you get this valuable degree. My colleagues often complain that their students don't remember their names (and I have been guilty of that, too), so try and remember the names of the professors who taught you at the University of Guelph. Some are already recognized; others will later become reputed scholars. Keep in touch with them. Be thankful that they prepared you well and take pride in their accomplishments and those of the University. Also, be mindful that your own future actions may help others become better citizens, valuable co-workers, effective bosses or efficient subordinates. Help others as you have been helped. Canada will be a better place, you will be a better person, and success will follow naturally.

I had selected this theme for my address before the tragedy of the World Trade Center, and the events since Sept. 11 have shown how interdependent we are. Remember the enduring truth of the classic movie *It's a Wonderful Life* that our own life touches so many others and that each one of us can make a discernable difference in building a better society. I am also sad at the terrible loss humanity has suffered and the children who will be missing a parent at joyous events like graduation.

The second reflection, about Kermit the Frog's honorary degree, is that in my 27 years of teaching and writing textbooks, I could never come close to reaching the millions of children in more than 100 countries that he has educated and delighted. More important, it signals that culture, in this case popular cul-

ture, has become such an important factor in modern societies, particularly multicultural societies like Canada.

Multicultural societies tend to be accepting and tolerant societies. I became interested in the study of culture about 20 years ago, mostly because I was faced with the incredible salad bowl that Montreal represents. I decided to explore the relationship between culture and consumption. I had no particular expertise in anthropology, so I did as before, I read a lot about this subject, then I read about sociology, cross-cultural psychology, family relations and, quite recently, about nutritional anthropology, just to mention a few. Looking at the list of departments represented at this convocation ceremony, I have in some form or another used or read some materials in all of them. This is to illustrate that in today's complex societies, you have to go beyond disciplinary boundaries and develop an eclectic mind. Leonardo da Vinci had such an eclectic mind and was an artist, a philosopher and an inventor. So was Herbert Simon, who contributed significantly to many fields, including economics and management.

In fact, many of the traditional disciplines like psychology, sociology, anthropology and nutrition, just to name a few, have gone beyond their original boundaries to create social psychology, cross-cultural psychology, social anthropology, nutritional anthropology and so on. So my advice to you is to embrace multidisciplinary-

ity, to be open to ideas from other fields of knowledge, to be ready to make detours in your own thinking to explore new avenues, to give a free rein to your imagination and to listen to your colleagues, who may have a different point of view. In whatever you do, with an eclectic mind, you will become more creative and successful.

Above all, don't be afraid to embrace chance and to seize any opportunity that comes your way. My own life has been shaped by the decisions (right or wrong) I made at every crossroad and led me to this podium. In my own research, serendipity has played an important role, not because I was lucky, but because I was able to turn some chance occurrence, mostly some unexpected results, into new insights, new theories and new models.

Louis Pasteur once remarked: "In the field of observation, chance favours only the prepared mind." The University of Guelph has developed and shaped your minds and prepared you well to deal with a complex and changing world. Make good use of your education, make the right decisions at future crossroads, and be prepared to seize any opportunity that comes your way.

Look to the past for understanding the roots of your current success and acknowledge those who helped you grow and succeed. Look into the future with a helping hand to others around you and with an open mind for exciting new opportunities with family, friends and co-workers. I wish you a great and wonderful journey full of unexpected challenges and deserving successes. Or to quote from Kermit's commencement address: "May success and a smile always be yours ... even when you're knee deep in the sticky muck of life."



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BEAUTY IN THE BANAL

Fine art prof's work makes a fresh statement about everyday objects

BY STACEY CURRY GUNN



This tin can installation in Zavitz Hall was a collaborative project of fine art professor James Carl's sculpture students. Carl, right, is shown with students Trevor Osborn and Melanie Bois.

THE FIRST ASSIGNMENT fine art professor James Carl gives his "Sculpture I" students is to get out of the classroom. "Go out into the world and look for stuff to work with," he tells them.

"I want them to look at how things are built," he explains. "I am training them to look at the world for material resources, for conceptual resources, to understand how things are put together, how the world is built. On a basic level, that's what sculpture is all about. It's about building things."

Carl's advice to his students has shaped his own growth as a sculptor for more than 20 years. Today, his work is exhibited at top North American galleries of modern art, including the Art Gallery of Ontario (AGO), which recently purchased a new installation that will be on display until May.

But 20 years ago, as a graduate of the University of Victoria's bachelor of fine arts program, Carl had had it with art. He felt the need to "literally flee" from his work. So he spent the next three years travelling through China, Southeast and Central Asia, the South Pacific, Japan, Australia and Europe. That trip, particularly his visit to China, transformed his perspective on the world.

"When I got to China, I realized I had no knowledge whatsoever of the culture," he says. "I hadn't been educated in the slightest way about the enormity of Chinese history. Living in China really afforded me an opportunity to question a lot of basic assumptions that I had about the world."

When he returned to Canada, Carl enrolled in East Asian studies at McGill University. There, he slaked a thirst for Chinese and Japanese languages, literature and history.

By 1990, it was time to focus on art again, so he went back to China and studied traditional calligraphy and seal carving at the Central Academy of Fine Art in Beijing. He then moved to the United States and earned a master of fine arts at Rutgers University. China called again and Carl spent another year at the Central Academy carving stone. In 1995, he moved to Manhattan, where he continued to work as an artist.

Then came the faculty position at Guelph three years ago. The Montreal-born, Toronto-raised sculptor was ready to re-

turn to Canada.

The move from New York City to Guelph "was a bit of a shock to the system," he admits. "But after about 20 years of constant travel and education all over the world, it was time. I look at teaching as a fantastic opportunity to basically download a lot of information. There's a certain point where that stuff needs to be communicated."

Carl is known for creating art that makes a fresh statement about everyday objects. Take his sculpture *Fountain*, for example. First installed in 1997 in the Toronto Sculpture Garden, it is a curved bank of nine vending machines that offer several varieties of bottled water, including a James Carl brand. The machines are backlit with a panorama of Niagara Falls, presenting an extraordinary 30-foot-wide image. Earlier this year, the work was reinstalled at the Bellevue Art Museum in Seattle, as part of the museum's inaugural exhibit.

Carl's work was also on display this summer at the Canadian Embassy in Beijing, in a two-person show with Sui Jian Guo, chair of the sculpture program at the Central Academy of Fine Art.

The show featured Carl's sculpture of a takeout food box — one that looks exactly like the white rectangular Styrofoam containers served up in U of G cafeterias. But this takeout box is of glowing-white Chinese marble. And for the exhibit, it was placed outside on the ground at the foot of a stone monolith in the embassy garden. Nearby, a lifelike sculpture of a tyrannosaurus rex loomed, the work of Sui Jian Guo.

The two sculptures, the eternal dinosaur and the throwaway lunch box, are a meditation on the idea of "forever," says Carl. "Nothing actually lasts forever. How is it that we all manage to carry around the image of a tyrannosaurus in our brains?"

"I have a fascination for completely banal objects and the relationships between the most banal objects and the most useless of things and those things that are essential and fundamental to our material values. A throw-away box contains food, after all, and a discarded lighter is fire. These are incredible resources, and there is an odd connection between loathsome banal objects and essential materials in our exhibit."

"There's a certain moment when the banal becomes sublime. Where you enable someone to have a fresh look at the world and open up a perceptual moment."

The work now on display at the AGO is part of an ongoing series called "White Walls." It's a pile of 50 automobile tires, handmade from corrugated plastic. Carl has sold about six smaller piles of tires to collectors in the United States and Europe.

"It's a social icon, the tire pile," he says. "The tire pile is like the dinosaur. It's part of our cerebral compost."

"I'm interested in what people like and what people do. I'm not trying to achieve some state of optimum self-expression. I'm more interested in community expression."

Carl says the ongoing nature of the project has to do with a sense of production — that is, the ethics and morality of production. "It's fascinating that something as corporeal and physical as the production line could have relation to a cerebral quality like morality and ethics, that production and morality could meet somewhere."

Carl lives in Toronto's Kensington Market, where he uses his apartment balcony as the venue for another ongoing artistic project. In this endeavour, he takes a curatorial role. *The Balcony* series showcases works by both local and international artists for the benefit of passersby. "We throw a great party," he says.

Over the course of Carl's career, his contributions to the contemporary art scene have been recognized with several Canada Council for the Arts grants and, in the United States, with the prestigious Tiffany Foundation Award. Future plans include a solo exhibit at the University of Toronto's Blackwood Gallery and a large group show at the AGO next year.

But on this October day, in the Zavitz Hall sculpture studio, Carl is fully focused on the creations his students have spawned from their forays into the world. Their sculptures are made from pieces of dried spaghetti, paper clips, matches, sugar cubes and the like. Carl admires the colours, shapes and movement of the pieces. The students have done well. There is beauty in the banal.



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City Gears Up for 175th

University will mark anniversary with historical displays

THE CITY OF GUELPH is gearing up for a year-long party to celebrate its 175th birthday in 2002. One of the ways the community will commemorate this milestone is by establishing a new scholarship for students who have graduated from a Guelph high school and are entering their second year at U of G or Conestoga College.

A black-tie dinner at the River Run Centre will celebrate the city's heritage and raise money for the scholarship fund. It will take place on April 23, 2002, the exact anniversary of Guelph's founding in 1827. Tickets are \$175 and are available by calling the Guelph Community



Foundation at 837-5691.

The dinner will be the premier event in a slate of community activities that span the entire year, including art shows, sporting events, festivals and concerts.

At the University, the McLaughlin Library will mark the anniversary

with three displays showcasing aspects of Guelph's history. Books and materials on city founder John Galt will be featured from January to April; archival materials outlining the history of the Guelph Spring Festival will be displayed from May to August; and a feature on Gordon Couling, an early crusader for saving historical buildings in the city, will run from September to December.

Other U of G events that will support the 175th-anniversary celebrations include the Central Student Association's 29th-annual Community Barbecue in July, College Royal, Alumni Weekend and Homecoming.

BOARD OF GOVERNORS

First Meeting of 2001/02 Welcomes New Governors

BOARD OF GOVERNORS chair Simon Cooper began the first meeting of the academic year by welcoming three new governors. They are Jason Deveau, elected by graduate students; Rita Burak, a lieutenant-governor order-in-council appointee; and Michael Mandeville of Physical Resources, elected by non-teaching staff.

In his remarks to governors, president Mordechai Rozanski outlined his priorities for 2001/02. These are to continue to support planning for the University's future in the context of its response to the "double cohort"; advocacy work as chair of the Council of Ontario Universities; and the advancement of U of G's capital campaign.

Governors were updated on the 2001 fall semester startup, the success of the University of Guelph-Humber marketing initiative at the Ontario Universities' Fair in September, and the ongoing campus master plan review process. Prof. Rob McLaughlin, vice-president (alumni affairs and development), gave a brief presentation on the current status of the capital campaign.

The board received for information several reports, including the Environmental Health and Safety Report and the Security Services Annual Report for 2000/01, and

was advised that both reports are distributed widely on campus. Also received was the University of Guelph Foundation Annual Report: 2000/01.

Governors passed a number of motions. They accepted the U of G summary of financial results and audited financial statements as of April 30, 2001. They also authorized the administration to proceed to tender the classroom complex and to award a construction contract.

A University of Guelph-Humber memorandum of understand-

ing for the management of the new Guelph-Humber building on the Humber Campus was also approved, as was the 2001/02 Ontario Ministry of Agriculture, Food and Rural Affairs contract budget.

B of G accepted a motion to increase the University's non-tuition compulsory student fees for student athletics and student services. Both the Central Student Association and the Graduate Students' Association ratified referendum results that authorized the increases. The fees take effect in winter semester 2002.

LEARNING EXPERIENCE FOR US ALL

I extend my sincere appreciation to the entire University community for its patience, understanding and co-operation during the recent closure of the Food Science Building. The possibility of anthrax contamination understandably triggered much concern on campus, particularly among those who use the Food Science Building regularly and those who handle the University's mail. So we were all very relieved to learn that the suspicious substance in question was actually ink powder. I also want to thank the City of Guelph for its quick action and support throughout this incident.

This has truly been a learning experience for us all. With input from the University community, we have adapted our emergency policies and procedures so that we have a specific approach to be followed should such an incident occur again. We have also provided training to staff handling the mail, so they can continue to feel safe in their jobs. Above all, we have once again witnessed just how well the University of Guelph pulls together as a caring community when a crisis occurs. I thank you all.

President Mordechai Rozanski

PARENTS APPRECIATE KINDNESS, SUPPORT

On Sept. 2, we joined the long lines of eager, keen students and families new to the University of Guelph. As your staff had so proudly promised, we were greeted warmly by orientation volunteers (OVs) everywhere. Good weather also helped.

The president hosted a welcome meeting for parents as we faced big changes in our lives, too. Everything was so well organized that we felt our students were indeed wise in choosing Guelph as their new home. We congratulate U of G and that dedicated group of OV's for a great start to university life.

It's easier to plan for the expected. A bigger test is how you cope with the unexpected and the unexplainable. When the events of Sept. 11 so quickly changed our lives, we recognize the support provided by the University community, including food service staff and even young residence advisers, in trying to comfort students. The kindness and support are greatly appreciated.

A big thank you to everyone in the University of Guelph community who responds to students throughout their time at university.

M.C. Martin, North York

RIBBON CAMPAIGN

TRUE COLLABORATION

I would like to thank all students, staff, faculty and friends of the University who wore a white ribbon and made donations during the White Ribbon Campaign in September. Thanks to your generosity, we are contributing \$1,418.35 to the Red Cross Relief Fund for the victims of the Sept. 11 tragedy.

My thanks go to the Student Executive Council (Interhall Council, the College of Arts Student Union, the College of Social and Applied Human Sciences Student Alliance, the College of Biological Science Student Council, the College of Physical and Engineering Science Student Council, the Student Federation of OAC, Senate Student Caucus and the Central Student Association) and your members for all your hard work helping to pull the campaign together so quickly, staffing donation tables and delivering or collecting the donation boxes. Thanks, too, to those staff who called to arrange for donation boxes to be placed in their units and to Brenda and Mabel at the University Centre's Williams Coffee Pub for donating gratuities collected during the week. Many thanks to Diana Kormendy for her tireless efforts in rolling the coins and to Interhall Council members for ensuring that donation boxes in residence were collected and accounted for.

This was truly a collaborative effort that I was honoured to be a part of.

Laurie Schnarr
Leadership, Service and
Involvement Programs

THANKS FOR THE MEMORIES

Thank you to all those who attended my retirement parties, sent best wishes by mail or e-mail, gave me comments for the "memory box" or offered your best wishes in person. I was gratified and honoured by the many kind and generous remarks.

I have wonderful memories of my experiences at Guelph. There were a few bumps in the road, but they were a small part of my 33 years on campus. I am proud to have been part of the University's history.

U of G is unique in the spirit of respect and co-operation that characterizes so much of its day-to-day working relations. It is also a university with a history of fairness, equity, vision and responsibility.

I wish all of you the best of luck in your careers and personal lives, and I extend my deepest and most heartfelt thanks for all your support over the many years.

Allan McInnis

* * *

@Guelph welcomes letters to the editor. They should be limited to 500 words, must be signed for verification of author and should be submitted electronically whenever possible. Deadline for submissions for the next issue of @Guelph is Nov. 5. Send letters to Barbara Chance, Editor, @Guelph, Communications and Public Affairs, Level 4, University Centre, b.chance@exec.uoguelph.ca.

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2001 Series

Sustainable Development: Mandate or Mantra?

Thursday, October 25

John Robinson (Director, Sustainable Development Research Institute, University of British Columbia)

"Squaring the Circle?: On the Very Idea of Sustainable Development"

Thursday, November 1

The Honorable Charles Caccia, M.P.

"The Current Situation: Corporate and NGO Pressures on Government"

Thursday, November 8

Gordon Surgeoner (CEO, Ontario Agri-Food Technologies)

"The Challenge of Abundance"

Thursday, November 15

David Lavigne (Science Advisor, International Fund for Animal Welfare)

"Ecological Footprints, Doublespeak and the Evolution of the Machiavellian Mind"

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Lucy Maud Montgomery Goes 'Virtual'

Digital scrapbook will open online door to beloved author's personal life

CANADIANS WILL SOON be able to get a "virtual" glimpse of writer L.M. Montgomery's life through a digital scrapbook being created from collections housed at U of G and four other archives and museums.

"Picturing a Canadian Life: L.M. Montgomery's Personal Scrapbooks and Book Covers" will be an online exhibition of materials that have never before been brought together, says Lorne Bruce, head of the University Library's archival and special collections. They include items from the author's personal scrapbooks, book covers, journals and photographs, many of which are housed at Guelph.

Currently, the scrapbooks are available to the public only for limited viewing because the pages are brittle and the fragile pressed flowers, clippings and photographs cannot be handled safely, says Bruce. But the virtual scrapbook, which will be bilingual, will include digitized images of these materials and much more.

Chief librarian Michael Ridley adds that the scrapbooks, like Montgomery's novels, poetry and journals, have an intricate, complex story to tell.

"These are the scrapbooks of an artist. They are intentional creations

with a perspective and a personality. They are personal and yet conscious of the reader. This project will allow us to preserve the integrity of what Montgomery created, but extend it by making the scrapbooks active electronic documents."

The digital scrapbooks will be annotated and layered so that viewers can either scroll through the pages rapidly or stop to study them intensely. There will also be video and audio clips, animation and other interactive elements. For example, the scrapbook might include the envelope of a letter sent by Montgomery, and a viewer will be able to virtually open the envelope and read the card or letter inside. Viewers may also look at items in the scrapbook and "lift" them off the page to view them in life size and in different dimensions.

"This project will bring to life little-known aspects of Montgomery's work," says Bruce. "Viewers will have the opportunity to see Canada at the turn of the century through her eyes: what interested her, the swatches of fabric she loved, the photographs she prized, the news items she preserved."

Montgomery wrote 20 novels, a book of poetry and numerous newspaper articles and short stories during her lifetime. She was also an avid

photographer, letter writer and gardener.

"L.M. Montgomery has been recognized as a Canadian hero and one of the most influential figures of the 20th century," Bruce says.

The virtual scrapbook will be launched next fall. The target audience is students in grade school through graduate school, teachers, Montgomery scholars and readers, cultural tourists and just about anyone else interested in knowing more about the author, he says.

"The Internet is the only way we could have brought together so

many different images, texts and optional enhancements for so many different audiences and free of charge," he says.

Adds Ridley: "It's a wonderful irony that one of the best applications of new technology is to provide better access to that old technology — paper. The U of G Library has an extraordinary Montgomery collection, and this initiative will bring an important part of that collection to the world."

The project is headed by the Confederation Centre Art Gallery and Museum in partnership with the

L.M. Montgomery Institute at the University of Prince Edward Island, the National Library of Canada, and the Virtual Museum of Canada of the Canadian Heritage Information Network, which has allocated \$200,000 to the effort.

Ridley notes that the digital scrapbook is "just the beginning. We plan to make many more of our unique collections available electronically." These include the Rural Heritage Collection and the L.W. Conolly Theatre Archives.

BY LORI BONA HUNT

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Publication Date	Deadline
Nov. 14	Nov. 5
Nov. 28	Nov. 19
Dec. 12	Dec. 3
Jan. 16	Jan. 7



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TOWARD 2010

Continued from page 2

could be extended to Edinburgh Road.

The group said Johnston Green should be retained as a green space and the current heavy pedestrian traffic should be accommodated, possibly with a crushed-stone path. It was also suggested that Branon Plaza be expanded to include Raithby House and the Bullring to accommodate traffic from the classroom complex. In addition, the southeast corner of the MacKinnon Building should be re-designed to ease this increased pedestrian traffic. And the pedestrian system around OVC should be completely redesigned because people now walk through parking lots and loading areas.

The group concluded that the University's brick walkways are a key feature of campus because they contribute to its positive image, are part of the University's tradition and are attractive. Brick should therefore be maintained for all primary walkways such as Winegard and Reynolds walks. On secondary walkways, a single material should be selected, such as brick, asphalt or concrete.

LANDSCAPE

This group recommended that streetscape and landscape be used to unite an extremely architecturally diverse campus, as well as to express different historical, contemporary, ecological and spiritual values. Planting on campus should also define the "cultural footprint" of the building or space immediately adjacent to it.

The planting along major pedestrian avenues should be rethought. The group suggested, for example, that trees should perhaps be planted in a boulevard alongside Winegard Walk, rather than within it, to better improve their chances of survival. The University should also capitalize on existing and proposed landscapes as entry features.

In the interests of safety, the University should improve lighting rather than remove plants, said the group. In addition, U of G should consider hiring a campus landscape architect.

WAY FINDING AND IDENTITY

This group believed there should be four main entrances to campus: Stone Road and Gordon Street, College Avenue and Gordon Street, College Avenue and East Ring Road, and the entrance off Stone Road east of South Residences.

The group said the University needs a clearly defined gateway for visitors, new and prospective students, faculty and staff. The vehicular entrance off Stone Road should

remain, but could be reconfigured so that P31, a main parking site for the UC, is relocated and a new welcome centre is created on the site. The Conservatory is also an option for a welcome centre. In addition, a drive-up pavilion could be created for drivers on the northeast corner of Gordon and Stone.

The group also suggested that a formal pedestrian entrance be created at the northwest corner of Stone and Gordon diagonally connecting to the UC, similar to the path across Johnston Green.

Improved maps and signage are needed for orientation, the group added. Lighting, pathways and signage should be consistent, and the style of lighting and signage should reflect the campus, possibly with a more classic look. Signage should be more obvious; in particular, roads should have street signs. There is also a need for better signage and identification at Stone and Gordon.

The entrance to the Arboretum is not easily identifiable, especially to pedestrians, and it could be treated as an extension of Reynolds Walk, the group suggested. The two sides of campus should be tied together by landscaping and design elements on both sides of Gordon Street.

ACADEMIC GROWTH

This group believed academic growth could be accommodated in two ways. One approach, the urbanized concept, locates academic growth in concentric circles around Branon Plaza, with common lecture buildings in the inner circle, individual departments in the outer circle and nodes at the inner circle. The density of the main campus should be increased before expanding beyond the ring roads.

The group indicated a preference for a second approach, the rural/urban concept, which locates growth around four separate nodes: OVC, Johnston Green, science buildings and Branon Plaza. The group suggested more integration of colleges and departments, so that students in different programs can interact.

RESIDENTIAL GROWTH

This group said there is a need for higher-density housing off campus, within walking distance to U of G. But it believed the University should keep its own residences on campus. Residences should also be close to services (including grocery stores) and public transit routes and within walking distance of the campus core (UC, library, etc.). Several sites were identified for a new campus residence, but the ones that seemed most appropriate be-

cause of their proximity to services and the core included two parking lots off or near Stone Road and another parking lot adjacent to Zoology Annex 4.

STUDENT SPACE

This group identified some interior spaces with positive qualities for students: the Daily Grind coffee shop in the UC, Pages Coffee House and the engineering lounge in the Thornbrough Building. They all provide comfortable and informal gathering spaces.

In the UC, spaces for student clubs are small and difficult to find, and Thornbrough's study area beside the windows is uncomfortable. The group study area on the library's fourth floor is very successful, but is usually too crowded.

Branon Plaza is a main gathering space, but needs to be better organized for increased pedestrian traffic and weather. One suggestion was to create an indoor connection to the UC from other buildings. In general, there is not enough seating provided around campus, the group said.

It identified three campus spaces that need major improvement:

- The two islands to the north and south of South Ring Road by the UC should be improved because they are poorly used, block views and don't provide any seating in a high-traffic area.
- Campus sports fields are under-used gathering spaces because they're difficult to access. People have to walk through parking lots and maintenance areas to reach them, particularly Alumni Stadium and the rugby fields.
- The MacKinnon Building courtyard is wasted space because it's unused. It may be a good location for a skating rink.

All of the above recommendations were received by the consultants, who will consider them as they proceed with the campus master plan review.

Anyone unable to attend the meeting and who wishes to provide input to the consultants is welcome to fill out and submit an issue sheet, available at www.pr.uoguelph.ca/masterplan. The sheet was also included as an insert in the Oct. 17 issue of @Guelph.

An exploration working paper is expected to be circulated to the campus community by January 2002, with a draft report produced in April 2002 and a final report released in May 2002. For more information on the campus master plan review, see the Oct. 3 issue of @Guelph or log on to www.pr.uoguelph.ca/masterplan.

BY SUZANNE SOTO

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Three Britney Spears concert tickets, Nov. 15, Air Canada Centre, 827-1271 evenings.

Kitchen table with five chairs, beige and brown arborite top, extension, good condition, Shawn or Jenni, 766-1764.

Blue couch with two recliners; blue loveseat; loveseat with pullout bed, can assist with delivery, 821-9139.

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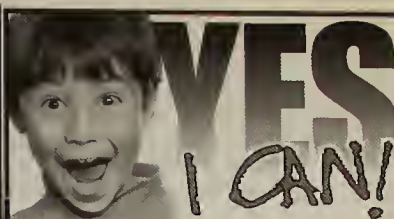
Care for your dog in my home while you travel, Cobi, 836-8086 or cdeemmers@uoguelph.ca.

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EVENTS

ARBORETUM

"Signs, Tracks and Finds," a hands-on workshop for the whole family, runs Nov. 17 from 1 to 4 p.m. Cost is \$18 for adults, \$9 for children or \$40 for a family of four. Registration and payment are due Nov. 2.

The Arboretum's Theatre in the Trees presents the comedy *Ghost of a Chance* by Flip Kobler and Cindy Marcus Saturdays from Nov. 3 to Dec. 15. Doors open at 6 p.m., the buffet is at 6:30 p.m. and showtime is 8 p.m. Cost is \$49. To order tickets or reserve special seating, call Ext. 4110.

The Arboretum Auxiliary's Sunday afternoon walks continue Nov. 4 with "Leave It Out" and Nov. 11 with "Remembrance Day Hike." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

The Kanata Native Dance Theatre performs Nov. 20 at 6:30 p.m. at the Arboretum Centre. Tickets are \$5 and are available at the Arboretum or downtown at Simply Wonderful.

ART CENTRE

The Macdonald Stewart Art Centre's annual "Framed" Art Auction is Nov. 10. Artworks by 40 prominent artists in a wide range of media will go on the auction block at 8 p.m. A reception begins at 6:30 p.m. Tickets are \$35 and are available at the art centre info desk and at the Framing and Art Centre.

ATHLETICS

The Gryphon volleyball teams are at home to McMaster Nov. 7 and Western Nov. 14, with the women playing at 6 p.m. and the men at 8 p.m. Queen's comes to campus Nov. 17, playing the men's team at 1 p.m. and the women's at 3 p.m.

The men's basketball Gryphons host Humber College Nov. 14, Queen's Nov. 16 and Toronto Nov. 17, with all games at 8 p.m. The women's team is at home to Acadia Nov. 3 at 2 p.m., Queen's Nov. 16 at 6 p.m. and Toronto Nov. 17 at 6 p.m.

The women's hockey team hosts Windsor Nov. 2 at 7:30 p.m., Western Nov. 3 at 2 p.m., Ottawa Nov. 11 at 10 a.m., Queen's Nov. 16 at 7:30 p.m. and Toronto Nov. 17 at 7:30 p.m. The men's team is at home to Waterloo Nov. 1 at 7:30 p.m., to Windsor Nov. 10 at 7:30 p.m. and

Nov. 11 at 2 p.m., to the University of Quebec at Trois Rivières Nov. 17 at 2 p.m. and to Concordia Nov. 18 at 2 p.m.

The U of G co-ed swim team hosts Waterloo Nov. 10 at 9 a.m.

CONCERTS

The Thursday noon-hour concert series continues Nov. 1 with the Orchard Ensemble, Nov. 8 with the U of G Chamber Singers, conducted by Marta McCarthy, and Nov. 15 with the U of G Early Music Ensemble, led by Larry Beckwith. The concerts are held in MacKinnon 107. Admission is free, but donations are appreciated.

CONFERENCE

The student-organized GREAT (Global-Regional Effects and Transitions) Development Conference runs Nov. 2 to 4 in Macdonald 149. The free conference will feature faculty and students discussing international development issues in an interactive forum. It opens Nov. 2 at 6 p.m. and continues Nov. 3 with sessions on Africa at 10 a.m., Asia at 1 p.m., the Middle East at 3:15 p.m. and Latin America at 5:45 p.m. A wrap-up session is slated for Nov. 4 at 11 a.m. For more information, send e-mail to nuage100@hotmail.com.

LECTURES

The annual Kenneth Hammond Lectures on Sustainable Development sponsored by the Faculty of Environmental Sciences continue Nov. 1 with MP Charles Caccia discussing "The Current Situation: Corporate and NGO Pressures on Government" and Nov. 8 with Prof. Gord Surgeoner, CEO of Ontario Agri-Food Technologies, on "The Challenge of Abundance." On Nov. 15, former U of G zoologist Dave Lavigne, science adviser for the International Fund for Animal Welfare, examines "Ecological Footprints, Doublespeak and the Evolution of the Machiavellian Mind." The lectures are at 7 p.m. in War Memorial Hall. Admission is free.

The School of Fine Art and Music's visiting speaker series continues with talks by Karma Clarke-Davies, a video installation artist from Toronto, Nov. 14 and Louise Wilson, an installation, new media and performance artist from London, England, Nov. 22. The talks are at 12:30 p.m. in MacKinnon 114.

NOTICES

Fair November, U of G's annual exhibition and show of fine Canadian crafts, runs Nov. 15 to 18 in the University Centre. Hours are 10 a.m. to 9 p.m. Thursday and Friday, 10 a.m. to 6 p.m. Saturday and 11 a.m. to 5 p.m. Sunday. Admission is free.

U of G's Child-Care and Learning Centre will hold a fund-raising scholastic book fair Nov. 1 and 2 from 10 a.m. to 3 p.m. in the UC courtyard.

The Stress Management and High Performance Clinic is offering a program on managing headaches beginning Nov. 6. The four-session program meets Tuesday nights at 7:30 p.m. in UC 390. Cost is \$20 for U of G students, \$60 for others. For more information, leave a message at Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

READING

The School of Languages and Literatures presents Quebec writer Stanley Péan reading from his works Nov. 13. At 10 a.m. in MacKinnon 237, Péan focuses on works for young readers from his *Roman + collection*. At 7 p.m. in MacKinnon 107, he draws on his novels *Le tumulte de mon sang* and *Zombi Blues*.

SEMINARS

"Looking at Protein Folding From a Polymer Chemist Point of View" is the focus of Jean Duhamel of the University of Waterloo in the Department of Chemistry and Biochemistry seminar series Oct. 31 at 3:15 p.m. in MacNaughton 222.

The fall biochemistry seminar series continues Nov. 1 with Sergio Grinstein of the Hospital for Sick Children Research Institute discussing "Regulation of Na⁺/H⁺ Exchange Activity and Its Role in Chemotaxis" at noon in MacNaughton 222. On Nov. 14, graduate student Susan Yates discusses "Investigations Into the Protein-Protein Interactions and Mechanism of Inhibition for the ADP-Ribosyl Transferase Reaction of *Pseudomonas aeruginosa* Exotoxin A" at 2 p.m. in MacNaughton 101.

The Guelph-Waterloo Physics Institute's Distinguished Lecturer Series features 1997 Nobel Laureate William Phillips of the National Institute of Standards and Technology in Gaithersburg, Maryland, Nov. 1 at 4 p.m. in the Humanities Theatre at Waterloo. His topic is "Almost

Absolute Zero: The Story of Laser Cooling and Trapping."

The Department of Economics presents Bernard Beaudreau of Laval University discussing "Engineering and Economic Growth" Nov. 2, John Kennes of the University of Miami on "Rethinking Pissarides: Wage Determination and Coordination" Nov. 9 and Mark Stabile of the University of Toronto on "Household Responses to Public Home-Care Programs" Nov. 16. The seminars are at 3:30 p.m. in MacKinnon 237.

The Axelrod Institute of Ichthyology seminar series continues Nov. 6 with zoology graduate student David Hardie offering "10 Ways to Catch a Fish, One Way to Measure Its Genome and 50 Ways to Leave Your Lover." On Nov. 13, the topic is "Today's Special: Rainbow Trout and Scrambled Eggs" with graduate student Tony Woods. The seminars begin at 12:30 p.m. in Axelrod 168.

Next up in the Department of Physics seminar series is Mats Selen of the University of Illinois at Urbana-Champaign discussing "Charmed Meson Decays for Fun and Profit" Nov. 6. On Nov. 14, Philipp Kronberg of the University of Toronto considers "Recycling of Large Amounts of Black Hole Energy in Space." On Nov. 15, Andrew Hime of the Los Alamos National Laboratory in New Mexico presents "Shaking Hands With the Weak Interaction." The seminars begin at 4 p.m. in MacNaughton 113.

TEACHING SUPPORT

Teaching Support Services' fall workshop series for campus instructors continues with "Designing and Implementing a Course Web Site" Nov. 2, "Producing Quality Video for Teaching" Nov. 7, "Teaching With PowerPoint: The Basics" Nov. 8, "Upgrading to WebCT 3.5 for Experienced Users" Nov. 13, "Introduction to Digital Imaging" Nov. 21, "Teaching With PowerPoint: Advanced" Nov. 22 and "HTML III: Advanced Features for Your Course Web Site" Nov. 26. Detailed descriptions and registration are available on the Web at www.tss.uoguelph.ca.

THEATRE

U of G's drama program presents *Problem Child and Criminal Genius* by George F. Walker for six performances Nov. 5 to 10 at the Inner Stage. Tickets are \$6 Monday to Wednesday.

day and \$8 Thursday to Saturday and are available at the UC box office, Ext. 4368, or at the door.

THESIS DEFENCES

The final examination of Tricia Lundrigan, a M.Sc. candidate in the Department of Zoology, is Nov. 15 at 2 p.m. in Axelrod 265A. The thesis is "Genetic Variation Within and Among Arctic Char (*Salvelinus alpinus*) From Cultured and Natural Populations in North America." The adviser is Prof. Moira Ferguson.

The final examination of PhD candidate Rebecca Sutherns, Rural Extension Studies, is Nov. 20 at 1 p.m. in Animal Science and Nutrition 141. The thesis is "Women's Experience of Maternity Care in Rural Ontario: Do Doctors Matter?" The adviser is Prof. Jim Shute.

WORKSHOPS

Computing and Communications Services is offering workshops for faculty and staff this fall. Upcoming sessions include "Introduction to WebMail" Nov. 2, "Managing Sites With Dreamweaver" Nov. 5, "Corporate Time Basics" Nov. 6, "Introduction to Outlook Express" Nov. 8, "Intro to SPSS" Nov. 9, "Intro to SAS" Nov. 13, "Intro to Adobe Forms" Nov. 14 and "MS Access" Nov. 15. Detailed descriptions are available on the Web at www.uoguelph.ca/ccs/training. Registration is required.

COMMUNITY EVENTS

The Guelph Chamber Singers present "War and Peace Remembered" Nov. 10 at 8 p.m. at the River Run Centre. The concert features music by Vaughan Williams, Leonard Enns and Barrie Cabena. For tickets, call 763-3000.

The Elora Festival Singers, directed by Noel Edison, present a reading of the *German Requiem* by Brahms Nov. 11 at St. John's Church in Elora. Lunch is served at 1:30 p.m., followed by a talk at 2:30 p.m. and the concert at 3:15 p.m. For ticket information, call 846-9694.

The Cardiac Fitness Association will hold its annual dinner and general meeting Nov. 12 at 5 p.m. at the Knights of Columbus Hall in Merryhill. Guest speakers are Ken Schonk, a specialist in humour and health, and John Schaman of the Ontario Aerobic Centre. For ticket information, call 648-2252.

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U of G Awarded Monnet Chair

Consumer studies prof will devote himself to European studies full time

THE EUROPEAN COMMISSION has awarded a Jean Monnet Chair in European Integration Studies to U of G. Consumer studies professor John Pratschke, co-ordinator of the European studies program, will hold the appointment.

"I see it as a well-earned tribute to the work of so many in the College of Arts who pioneered European studies as an area of study blending business and the humanities," says Pratschke.

"The program has now come of age and can look forward to wider national and international recognition. We will be linked with the international network of Monnet chairs, which will be very helpful for teaching and research in the future."

The Monnet Chair will enable Pratschke to devote himself full time to European studies for the next five years. He will develop new undergraduate and graduate courses, design distance education/open learning formats for existing courses, and continue the development of an open learning certificate in European studies. Biennial conferences for students will focus in alternate years on European culture and civilization and European business.

Continued on page 10



Master's student Amy Proulx, shown here with her adviser, Prof. Yukio Kakuda, received support for her work on soy-derived iron supplements. PHOTO BY MARTIN SHWALBE

Novel Approaches to Soy Development Garner Support

Environmental, human and fish health are focus of research projects

ROUND TWO of research projects sponsored by a unique fund designed to catalyze new uses for soybeans is under way, with winning awards this year emphasizing environmental health, human health and even fish health.

The \$1-million Hannam Soybean Utilization Fund (HSUF), launched last year, is working to change the way the public thinks about soybean use and the way industry uses soybeans. The fund was donated by Guelph graduate and First Line Seeds president Peter Hannam and his family.

This year, with support from the fund, researchers are working to develop better aquaculture feed, create a biodegradable alternative to polystyrene and produce easily absorbable iron supplements.

"The Hannam fund is an excellent example of how private-sector partnerships can support truly innovative research," says Prof. Alan Wildeman, vice-president (research). "Soybeans are one of Ontario's biggest crops, and there are many uses for them that are untapped and can be catalyzed through research."

This year, graduate students, working in conjunction with their faculty advisers, will see big benefits from the fund, having received awards for engineering, food science

and animal science research over the next two years.

"I'm very pleased with the enthusiastic response to this fund, and particularly that both faculty and students are coming forward with proposals," says Hannam.

In one study, post-doctoral researcher Gregory Page is collaborating with Prof. Dominique Bureau, Animal and Poultry Science, to examine ways to incorporate soybeans into aquaculture feed.

Soy is usually rejected as a viable addition to fish feed because it doesn't effectively promote growth, resulting in smaller fish. But Bureau and Page hope to modify soy in a way that won't affect fish growth. Their resolve is stronger yet because soybeans also have environmental benefits. Soy is low in environment-damaging phosphorus, and increasing the soy that fish eat could cause less to be excreted and help preserve their habitat.

"The goal of this project is to provide the information that people need to produce environmentally sound and economical aquafeeds," Bureau says.

Seizing on the environmental momentum of soy is Eugene Mohareb, a master's student in engineering. His work in developing a biodegradable replacement for polystyrene in food packaging may help

reduce the amount of petroleum products required by the food industry. His work includes an edible cookie tray — designed to be eaten along with the snacks inside — and compostable replacements for styrofoam meat trays. This is a particularly valuable development for the food industry, which contributes about one-third of all landfill waste.

During the course of his research, Mohareb aims to refine the substitute meat trays and edible cookie trays he created last year as a co-winner of U of G's Project SOY (Soybean Opportunities for Youth).

Food science master's student Amy Proulx, another Project SOY winner, is furthering her work on soy-derived iron supplements. The supplements provide a vegetarian source of heme iron (the form of iron that is easily absorbed). This makes it a potential solution to iron deficiency in North America and has broad applications for developing countries.

Projects funded by the HSUF last year included work to explore the use of soy products in treating kidney disease, the creation of soybean lines that would improve the flavour of soy milk, and a proposal to market the use of soy biodiesel in Ontario.

BY ERINN WHITE
SPARK PROGRAM

Maclean's Ranks Guelph Third

U of G loses ground in areas tied to provincial support, gains in national reputation

U OF G was ranked the third-best comprehensive university in Canada, compared with second last year, in *Maclean's* magazine's annual rankings issued published Nov. 12.

In the national reputational portion of the magazine's rankings, Guelph placed second among comprehensive universities and rose from 10th to sixth place among all universities in Canada.

In an interview with *@Guelph*, Ann Dowsett Johnston, editor of the rankings issue, said Guelph being ranked sixth overall in reputation is "extraordinary. It's a phenomenal jump to make in one year."

The University of Waterloo placed first in the comprehensive category, which includes U of G and 11 other Canadian universities. *Maclean's* classifies comprehensive universities as those with a significant amount of research activity and a wide range of programs at the graduate and undergraduate levels. The two other classifications are medical/dental (universities with a broad range of PhD programs and research and medical schools) and primarily undergraduate (those largely focused on undergraduate education with few graduate programs).

Dowsett Johnston noted that the comprehensive category is always highly competitive. Guelph's third-place ranking was more an issue of Waterloo improving than U of G slipping, she said.

"Guelph remains one of the top universities in the country. It's an amazing university that has paid a lot of attention to its undergraduate population. You have a very proactive president and proactive first-year programs. It's a nurturing place with an unbelievable residence life."

President Mordechai Rozanski congratulates Waterloo on its success. "And although we placed third in the overall category," he said, "I am very pleased that our reputational profile has improved and that we continue to be recognized for our commitment to student quality and student support."

Continued on page 10

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TOWARD 2010

University Establishes Committee to Review Undergraduate Academic Advising

PREPARATION for the "double cohort" continues at U of G, including ways to make the learning environment even stronger and more supportive for undergraduate students.

Prof. Maureen Mancuso, associate vice-president (academic), says special challenges include planning for a student group that will not only be younger, but will also be coming out of a new high school curriculum. As part of this planning, Mancuso has appointed a committee to conduct a campus-wide review of undergraduate academic advising at the University.

"This review arises from previous recommendations included in the 1995 strategic plan, as well as from several Senate committees and the University cluster planning reports," she says. "All have recommended that academic advising be reviewed in a complete and systematic way. The Enrolment Coordinating Committee Working

Groups that met through winter 2001 also recommended that such a review be undertaken."

Specifically, the committee has three tasks: to assess the strengths and weaknesses of the current academic advising systems; to explore and evaluate ways to structure advising systems (including ways to assess advising services); and to develop a campus academic advising and counselling policy that includes a mission statement as well as a set of goals.

"The overall goal of the committee is to ensure the University has a coherent and structured academic advising system that is well-positioned to meet the needs of students and to support the University in meeting its enrolment and student retention targets over the next five years," says Mancuso.

Members of the committee, which is chaired by Mancuso, are Brenda Whiteside, associate vice-president (student affairs); Prof.

Alun Joseph, dean of the College of Social and Applied Human Sciences; Prof. Steve Scadding, Zoology; Roberta Mason, director of Student Life and Career Services; Prof. Jim Mottin, Psychology; Linda Allen, B.Sc. program counsellor; Jill Johnson, B.Sc.(Env.) program counsellor; Kelli Sisler, B.Sc.(Agr.) program counsellor; Natalie Ross of the Central Student Association; and Kendra Holliday of Student Senate Caucus.

The University's deans have been consulted and have offered their full support for this review, Mancuso adds. The committee will solicit comments and opinions from students, program counsellors, departmental advisers, deans, staff and faculty and others involved in, or affected by, the academic advising process. A report on the committee's findings, including specific recommendations for institutional actions, will be presented to the provost by March 30, 2002.

Guelph to Collaborate With Dutch Centre on Ag Training

Programs will be customized to meet the needs of Canadian agri-food industry

CANADIAN AGRI-FOOD producers and processors will have expanded training opportunities, thanks to an agreement struck between the University of Guelph and the Innovation and Practical Training Centre (IPC) of the Netherlands.

The three-year agreement, signed at Guelph in October, will see the University and the IPC collaborate on the development and delivery of intensive hands-on programs in horticulture, dairy and swine and other topics as requested.

"The expertise that the Dutch have in horticulture is world-renowned," says Kathy Biondi, director of OAC's Agri-Food Continuing Education. "This is an opportunity to bring practical training to Canadian growers and producers. IPC provides technical training to thousands of clients around the world."

Various program delivery methods will be used, including demonstrations, Internet-based courses and other forms of group and independent learning.

The jointly delivered programs

will be customized to meet the needs of the Canadian agriculture industry. The University has already conducted a needs assessment for greenhouse training by surveying delegates at the Canadian Greenhouse Conference in October.

"There was a very positive response," says Biondi. "Growers are always looking for ways to build their business. They say: 'Show me how I can do better.' I think the same thing is going to be true with the hog and dairy sectors."

Prof. Clarence Swanton, chair of the Department of Plant Agriculture, notes that the greenhouse industry has expanded 30 per cent a year over the last number of years. "To keep pace with a rapidly changing industry, international educational opportunities such as this are a must for Ontario greenhouse growers."

OAC and IPC plan to stage pilot courses next spring focused on areas such as energy conservation, computerized environmental controls and irrigation and fertilizer application. Courses will be held where convenient for the learners, such as in

Niagara's greenhouse-growing belt.

The training opportunities will evolve as consultation with the swine, dairy and other sectors takes place, says Biondi. "We want to find out what industry leaders want, what opportunities they see."

Prof. Kees de Lange, Animal and Poultry Science, visited the IPC training centre in Holland in early November to gain a better understanding of the courses the institute offers swine producers.

"We will be working closely with IPC to fine-tune their courses to meet needs here," says de Lange. "The proposed programs will provide excellent opportunities for people who work in the industry to upgrade themselves in various aspects of swine management and pork production."

Swine courses could start as soon as next fall.

"The agreement allows Guelph and IPC to combine our strengths and go anywhere with our training program, at least on this continent," Biondi says.

BY STACEY CURRY GUNN



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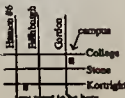
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Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
l.graham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Acting Director Chuck Cunningham
c.cunningham@exec.uoguelph.ca

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**ASSOCIATE VP RESIGNS,
INTERIM AVP NAMED**

To his and the University's regret, John Core has resigned his position as associate vice-president (research, agri-food and partnerships). In the interim, Prof. David Hume, executive director of U of G/Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) research programs since 1999, will serve in this capacity. OMAFRA and the Agricultural Research Institute of Ontario commend Hume's past contributions to the agri-food sector and say they look forward to working with him in this new appointment.

SCHOOL WINS AWARD

The School of Rural Planning and Development has won an Outstanding Planning Award from the Ontario Professional Planners Institute for the manual *Rural Planning and Nutrient Management: Issues and Approaches*, which the school developed in partnership with the Ontario Ministry of Agriculture, Food and Rural Affairs and Huron County. The widely circulated 500-page manual is designed to help planners, elected officials, farmers and the public develop a better understanding of rural planning issues. The award is the highest recognition a planning study or report can receive in Ontario.

**ONLINE DISTANCE EDUCATION
COURSE EARNS AWARD**

"Humans in the Natural World," an online course that is a joint project of the Department of Zoology and the Office of Open Learning, won first place in the single course category at the North America Web Conference (NAWeb) last month. This is the third NAWeb award for Guelph's online distance education efforts. To view a static version of "Humans in the Natural World," visit the Web site www3.open.uoguelph.ca/courses/zoo1500.

UGSA TO VOTE ON MERGER

The U of G Staff Association will hold a special general meeting Nov. 22 for members to vote on a recommendation by the executive to merge with the United Steelworkers. For more information, contact the UGSA office at Ext. 8727 or visit the Web site www.uoguelph.ca/~ugsa.

FALL PREVIEW DAY A HIT

High school students and their parents once again turned out in record numbers for this year's Fall Preview Day Nov. 3. The event drew about 3,500 people, up 700 from last year. Following a welcome by president Mordechai Rozanski, participants listened to a panel of students, staff and faculty discuss issues such as admissions, finances and housing. The day also featured campus tours and displays. More than 300 volunteers from the University community turned out to help admissions staff with the event.

Tracking Water Pollution

Does transition to a market-based economy make environmental problems worse?



Prof. Ross McKittrick is creating a pollution emissions database to reveal where problems are occurring and why.
PHOTO BY MARTIN SCHWALBE

EVEN THOUGH every living being needs water, we continue polluting it and rarely manage the resource well. One researcher who's taken an interest in what causes water pollution globally is Prof. Ross McKittrick, Economics. He's creating a pollution emissions database that will reveal where problems are occurring and, most important, why. Along with undergraduate student Tim Shufelt, McKittrick has collected an assortment of data from 65 countries, many of which moved towards a market-based economy between 1980 and 1993. A market-based economy is one in which the supply and demand of goods and services is largely left up to individuals in the private sector to coordinate, rather than having a government planner try to dictate production and distribution decisions. The data were examined to see how changes in property ownership rights, contract law, civil liberties and literacy influence industrial water pollution.

By examining the data, McKittrick and Shufelt hope to understand how the transition towards a market economy affects water pollution,

such as the contamination of groundwater and sewage problems. By combining economic theory with statistical analysis, they hope to help developing countries anticipate the environmental implications of political and economic transitions.

"When countries move towards a market system, property rules change," says McKittrick, "and there are conflicting theories about how this will affect pollution levels."

One of his main interests is comparing liability law versus a regulatory system. Liability law forces polluters to compensate those injured by their actions — a strong incentive to reduce emissions. But court battles are costly and time-consuming.

A regulatory system, on the other hand, forces all polluters to operate by the same standard. But McKittrick says one-size-fits-all solutions have hidden costs that diminish the effectiveness of the policy.

Many developing countries are currently making the transition towards a market economy. Part of this process involves strengthening the role of courts in enforcing private contracts and property rights.

McKittrick and Shufelt believe these are positive changes, but they come with environmental implications that need to be studied.

"We find that changes in the overall structure of property rights have little effect on pollution," says McKittrick, "but looking at it in more detail, we see that key aspects of the law have contrasting effects that tend to cancel out."

He says greater security of ownership seems to be associated with higher emissions, whereas stronger contract enforcement is associated with reductions in emissions.

The economist believes that appropriate solutions to problems of water pollution depend on the scale of the situation. At a local level, direct negotiation between the affected parties — in a context of clear property rights — is often the best approach, he says. But if the problem is larger or involves many parties, a co-ordinator is needed to initiate a solution.

This work was supported in part by the University research assistant program.

BY KATE MAIRS
SPARK PROGRAM

PEOPLE

**HAFI DIRECTOR NAMED
EDUCATOR OF THE YEAR**

Prof. John Walsh, director of HAFI and associate dean of the Faculty of Management, has been chosen as a *Hotelier Pinnacle Award* winner in the category "Educator of the Year." A faculty member at Guelph since 1988 and director of HAFI since 1997, Walsh played an integral role in developing the MBA program in hospitality and tourism, revitalized HAFI's executive and management programs and introduced a new distance-based certificate in hospitality studies. He will be honoured at an awards luncheon Dec. 3 at the Royal York Hotel in Toronto.

MICROBIOLOGIST GIVES TALKS

Prof. Terry Beveridge, Microbiology, gave the keynote address at the National Society of Histotechnology Conference in Charlotte, N.C. He also gave invited talks at the Stanier Symposium in Ste. Foy, Que., the Canadian Association of Physics meeting in Victoria, the Canadian Institute of Advanced Research Workshop on the Science of Soft Surfaces in Vancouver, the Synchrotron Radiation in Environmental Sciences Workshop in Argonne, Ill., and at two Guelph conferences — PIXE 2001 and the International Conference on the Geochemistry of Trace Metals.

**INTERNATIONALIZATION IS
FOCUS OF PRESENTATION**

Prof. Jim Shute, director of the Centre for International Programs, spoke at the Studies in National and International Development Program at Queen's and the 40th anniversary of the Queen's International Centre on the topic "From Here To There and Back Again (Again): Examining the Links Between University-Based Development Projects and the Internationalization of Canadian Campuses."

PHD STUDENT RECOGNIZED

Jane Shearer, a PhD student in the Department of Human Biology and Nutritional Sciences, received the Graduate Student Award at the annual meeting of the Canadian Exercise Physiology Society held in Montreal in October.

United Way Volunteers Worry

WITH ONLY TWO WEEKS to go in the annual United Way campaign, U of G canvassers are worried that this year's total giving may fall far short of the \$245,500 campaign goal.

"We still need to raise more than \$80,000 just to match last year's total," says co-chair Karen Reimer, manager of Co-operative Education Services. "Because U of G has the largest corporate campaign in the Guelph and Wellington area, we're a very important part of the overall fund-raising drive to support local services and agencies. Whatever the shortfall, it means we'll lose programs that people need and rely on — breakfast programs for children, hospice care, healthy meals for sen-

iors, transportation for people with disabilities and a safe haven for families in distress."

Reimer and co-chair Prof. Bev Kay, Land Resource Science, are encouraging staff and faculty to use the convenient payroll deduction forms distributed at the start of the 2001 campaign.

"We started our campaign with a coffee break kickoff," says Reimer. "It would be great if everyone could give the cost of one cup of coffee per week for the next year. Even small amounts add up when we work together."

An incentive draw to encourage payroll participation was held Oct. 17, and a second is scheduled for Nov. 15. The early winners were

Karen Walker, Student Housing Services; Doug Pletsch, Rural Extension Studies; Lucas Nightingale, Office of Research; Susan Lewis, School of Engineering; Rama Viswanathan, Computing and Communications Services; and Jane Shearer, Human Biology and Nutritional Sciences.

In addition, the campus United Way committee is sponsoring a vacation raffle. First prize is the use of a one-bedroom condo for a week at one of several resort locations. Second prize is a U of G leather jacket; third prize is a getaway night for two at the Best Western in Guelph and 20 per cent off dinner at Mirage Restaurant. Tickets are \$1 each or three for \$2 and are available from all United Way canvassers.

IN MEMORIAM

MARGARET HEBBES

Margaret Hebbes, a staff member in the Office of Registrarial Services from 1974 until her retirement in 1999, died suddenly Nov. 6 at the age of 64. She is survived by her husband, Derek; her son, Wayne; her daughter, Tracey Alberico of Human Resources; and four grandchildren. A tree will be planted in her memory next September in the Wall-Custance Memorial Forest.

DAVID HELLEWELL

David Hellewell, a staff member in the Grounds Department of Physical Resources, died suddenly Nov. 5 at the age of 45. He joined the University in 1973. He is survived by his son, Mark, his parents and three brothers.

Inner Stage Renaming to Honour Theatre Pioneer

Director founded first theatrical company in Canada committed to politically engaged ensemble performance

U OF G'S INNER STAGE theatre will be renamed next spring in honour of theatre director George Luscombe, considered the father of the alternative theatre movement in Canada.

"We're honouring him as a teacher, friend, colleague and great artist," says Prof. Alan Filewod, Literatures and Performance Studies in English. "We felt he had been such an inspiration for us and our students, and so important in the history of the country, we asked his widow, Mona, if we could name the theatre after him."

Luscombe was a director, producer and playwright who founded Toronto Workshop Productions in 1959 after a decade of learning his art in Britain. It was the first theatrical company in Canada committed to politically engaged ensemble performance.

"George developed a new way of taking classic plays and making them socially relevant," says Filewod. "He

did some of the most important work in Canadian theatre history."

After his retirement (Toronto Workshop Productions closed in 1989), Luscombe became a sessional acting instructor at Guelph for several years.

Filewod recalls Luscombe's "mystical" reverence for the stage and its magic. One day, while walking through the acting studio before a class, Filewod noticed Luscombe looking positively radiant. "George said: 'I finally got it.' He had been teaching and working with acting methods for 30 years, and he'd decided he'd finally got it."

Filewod says "students were in awe of Luscombe," and they didn't even know his history. He had an incredible presence. There's a lot of love for him here.

The University gave Luscombe an honorary doctorate of laws in 1996 for giving Canadians an important body of theatrical innovation and training several

generations of actors, writers and directors. College of Arts graduands rewarded his convocation address with a standing ovation.

Luscombe died in 1999 at age 72. Most of the scholarship about his life and work has come from U of G, including a book, *Harlequin in Hogtown*, by retired English professor Neil Carson. Guelph is also home to the Toronto Workshop Productions

archives, containing scripts, correspondence, photos and posters from its 30 years of activity.

The theatre renaming celebration, scheduled for March 16, will include an afternoon panel discussion featuring prominent theatre and cultural experts.

Filewod says the colloquium will explore questions about the meaning of politics and performance to-

day, the role of politically engaged dramatists, and how theatre can speak to the changing condition of the world in a meaningful and entertaining way.

That evening, the drama program will stage its final performance of *The Dog Beneath the Skin*, a 1935 British play about the world sliding into war.

BY STACEY CURRY GUNN

When the Economy Meets the Environment Abroad

Canadians help Chinese province cope with industrialization

ECONOMIC REFORM and massive industrialization in China's Zhejiang Province are proving to be a double-edged sword, benefiting economic growth while destroying the province's ecosystem at an unprecedented rate. To help, a team of U of G faculty and graduate students is teaching and researching — and learning — how to mitigate environmental tragedy in the face of the rapidly expanding economy.

The initiative, formally dubbed the University of Guelph-Zhejiang University (UG-ZU) project, consists of two parts: classes on environmental issues for Chinese officials and facilitated research for Canadian graduate students.

"We're trying to help the administration in Zhejiang Province cope with the overwhelming shift from a rural to urban economy," says Prof. Richard Kuhn, Geography, a member of the UG-ZU project. "This shift has improved standards of living, but at the same

time, it has affected the social structure, increased the standard of living, increased pollution and decreased the agricultural resources in Zhejiang."

With some of the world's highest acid rain levels, Zhejiang Province is in murky environmental water. Many of the region's rivers have chemical oxygen demand values ranging from 73 to 94 mg/L, far above the 25 mg/L that is China's national standard for minimal surface water quality. But with the help of Guelph researchers, the province is working to introduce initiatives that will curb pollution.

Since the launch of the UG-ZU project five years ago, there have been positive results. In the town of Zhongshan (pop. 12,000), for example, vice-mayor Baifu Ruan attended the UG-ZU training and took the lead on a pilot project to clean the town's rivers, an issue addressed in the first year of the project, 1997. When UG-ZU participants returned

last year, the region was proud to show that there were fish in the river — a first for Zhongshan residents.

The second part of the UG-ZU project involves facilitating research for more than 20 Guelph graduate students. The goal is to encourage students from various departments to research areas that have governmental and cultural barriers to be overcome. This involves the Chinese tradition of harmonious relationships called *guanxi* (making connections through unofficial routes).

"The project opened so many doors for me," says Mark Skinner, a Guelph research associate and member of the UG-ZU project. "It helped me conduct research for my master's degree and provided me with valuable international, cross-cultural experience."

This research is sponsored by the Canadian International Development Agency.

BY NIC SCHULTZ
SPARK PROGRAM

Committee to Review Code of Conduct for Campus Vendors

U OF G has established a committee to review its existing Code of Conduct for Vendors on campus. The group will examine the current code and literature in this area, review codes of other universities and seek input from stakeholders across campus. Based on its findings, the committee will make recommendations for changes to the University's code, as

well as its ongoing monitoring.

Chaired by Mike Stephenson, local affairs commissioner for the Central Student Association, the committee includes broad representation from students, faculty, employee groups and vendors. It hopes to have a report completed by the end of this academic year, which will then go through the normal governance process for approval.



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Researchers a Step Closer to Solving Pig Barn Odours

Chemists hope to develop method of reducing smells associated with spreading liquid manure



Prof. Nigel Bunce, left, and graduate student Peter Keech are using electrolysis to destroy compounds that are a major source of the odours accompanying hog manure. PHOTO BY MARTIN SCHWALBE

THE ODOURS that accompany intensive hog farming practices are causing all kinds of problems for producers. But now, researchers at U of G have come one step closer to finding a solution.

Prof. Nigel Bunce and graduate student Peter Keech of the Department of Chemistry and Biochemistry have found a way to destroy compounds called indoles — a major source of odours associated with hog manure — through electrolysis, a technique that uses electrical energy to drive a chemical reaction.

This achievement is the first step in what they hope will lead to development of a method to reduce odours associated with liquid manure spreading.

"The project allows us to look at the treatment of compounds using electrolysis, while at the same time allowing the industry to come closer to achieving a real solution," says Bunce.

So far, the researchers have completed laboratory studies that focused specifically on indoles. Manure contains many substances that could influence the treatment, so the researchers first worked with the pure indoles to test whether electrochemical treatment would work.

In this phase of the study, they found the treatment was able to successfully degrade the isolated indoles

into odourless products. The next phase will apply the treatment to hog manure itself, without isolating the indoles. If this is successful, the third step will involve creating a technology for applying the treatment on a practical scale.

Considering the magnitude of the problem and the hog industry's interest in the environment, Bunce says this study is important to the industry and its producers.

"Even if we discover that this isn't the best way to treat odour, we'll have a clear idea about what does and doesn't work, and we can explore different approaches," he says.

Bunce has also been investigating the treatment of waste using electrochemical technology since 1995. Last year, U of G received funding from the Canada Foundation for Innovation to open an Electrochemical Technology Centre, which Bunce says will be instrumental in advancing research in this area. Other projects he's been involved in include the treatment of acid mine drainage and the treatment of groundwater contaminated by explosives waste.

This research is sponsored by the Ontario Ministry of Agriculture, Food and Rural Affairs and by Ontario Pork.

BY DALE DUNCAN
SPARK PROGRAM

Building a Better Beef Market

Breeding programs will improve both production efficiency and quality of meat

PROF. STEPHEN MILLER, Animal and Poultry Science, is on a quest to find the genetic code for the healthiest, affordable and most tender beef steak to put on your table.

While he's at it, the beef cattle geneticist also hopes to discover which cattle breeds get along best with others at the feeding trough. That way, he can find a genetic combination for beef cattle that not only taste better but also make life easier for farmers.

"Our goal is to build a better beef market," Miller says, noting that Canada's beef industry contributes about \$20 million a year to the economy. "This is a tool to help farmers do just that."

The "tool" is more than \$2 million worth of equipment that will be used to develop unprecedented breeding programs to improve both production efficiency and meat quality. It's the first time such equipment has existed in one facility. The research is being funded by the Canada Foundation for Innovation, On-

tario Innovation Trust and private partners.

The research will involve some 400 beef cattle at a state-of-the-art evaluation and production facility. The animals will wear tiny ear tags that emit radio signals. This will allow researchers to monitor when the animals are eating, how much and with whom, and to closely follow their "table manners."

"Many animals' behaviour characteristics have a genetic component," says Miller. "Less fighting among animals also means less bruising and a higher-quality product."

The animals' body composition will also be carefully documented using ultrasound, infrared and digital imaging. Meat quality measurements, including tests for tenderness, will be taken and DNA and tissue analysis conducted.

"In the past, one of the major limitations to research has been animal measurement," says Miller. "This new equipment will increase capacity for measurement fivefold

and make it more accurate and efficient."

Information about the beef cattle will be fed into a huge electronic data system. It will allow Miller to match up corresponding tissue and DNA information with behaviour and feeding efficiency and beef quality information. From there, he can develop genetic markers for the best beef cattle.

"Beef quality has not been addressed from a genetic perspective in a major way, yet it has been identified as a major contributor to consumer demand," he says. "This research will help us serve consumers by putting the highest-quality product on their table. And it will help farmers improve their breeding and feeding methods."

As an added bonus, the facility will provide equipment unavailable elsewhere, allowing Guelph to attract and retain researchers, says Miller. It will also foster collaboration with other faculty and the private sector.

BY LORI BONA HUNT

Zoologists Study Potential of Aggregate Ponds for Fish

Aggregate Resources Act requires companies to rehabilitate properties after extraction

A U OF G GRADUATE student and professor have teamed up with local businesses to study the use of aggregate ponds as new fish habitat.

"There are hundreds of these aggregate ponds in southern Ontario," says Lisa Guenther, a zoology master's student who is working on the project with Prof. Gerald Mackie. "A lot of people look at these sites and just see big holes in the ground, but they can actually be very useful and productive lands."

The two researchers approached Dufferin Aggregates, Nelson Aggregates and Blue Circle Canada, which agreed to fund the research and are providing access to their properties.

"This is an excellent opportunity to contribute to education and research as well as to expand rehabilitation knowledge with the aggregate industry," says Dufferin Aggregates spokesperson Ken Zimmerman.

The zoologists also received a collaborative research and development grant from the Natural Sciences and Engineering Research Council.

Guenther and Mackie are studying the aquatic habitat in the aggregate pits and quarries. After extraction of sand and gravel is complete, many pits and quarries fill with water from ground and surface sources.

"What we are finding is that once the plants, bugs and other aquatic life have a chance to develop, fish populations start moving in," says Guenther. "But little is known about the kinds and abundance of fish the ponds will support or how many."

The researchers plan to examine the natural conditions and the rate of ecological "succession" in aggregate ponds and evaluate the areas as new fish habitat. They have completed the first phase of the two-year project, studying eight aggregate ponds in 2000 and adding seven more in 2001.

"We want to collect two years of data before we begin any analysis," Guenther says.

The researchers are examining the age, size and depth of ponds, as well as the fish habitats that congregate in these ponds naturally. Different types of ponds and quarries can support species such as largemouth bass, rainbow trout, yellow perch and possibly walleye, she says. The 15 ponds she is studying range in age from one year to 25 years.

Under the Aggregate Resources Act, companies must rehabilitate their properties after extraction is complete.

"This study will increase our understanding of the beneficial after-effects of these areas and help demonstrate that resource extraction can be consistent with sustainable development," Guenther says.

The aggregate ponds may be used for recreation, as landscape features, for aquaculture and even for fish farming.

"As the fish populate these ponds, they could provide new opportunities for the sport fishing industry," she says. "New aquatic habitat also has great potential for increasing the biological diversity and esthetic value of land."

Mackie adds that he is looking forward to finishing the project "because it will be the first to examine even basic chemical, physical and biological interactions in pit and quarry ponds of southern Ontario as they mature from zero up to 25 years of age."

BY LORI BONA HUNT

Call for Proposals

THE CAMPUS Accessibility Committee is calling for proposals to improve access for people with disabilities.

The committee — made up of members of Physical Resources, the Centre for Students With Disabilities (CSD), Student Housing Services, students and faculty — is looking for projects that will boost access for people with hearing, vision, medical,

mobility, learning and/or emotional disabilities. Projects supported in the past include ramps at Macdonald Hall and McNally House and improved signage across campus.

Proposals should be submitted by Dec. 1 to the CSD on Level 3 of the University Centre or by e-mail to csd@uoguelph.ca. For more information, contact Trudy Smit Quosai at Ext. 8310 or trudys@uoguelph.ca.

MIND THE BOOKS

"The production of new books in the old print and paper form decreases by the moment."

BY ELIZABETH WATERSTON

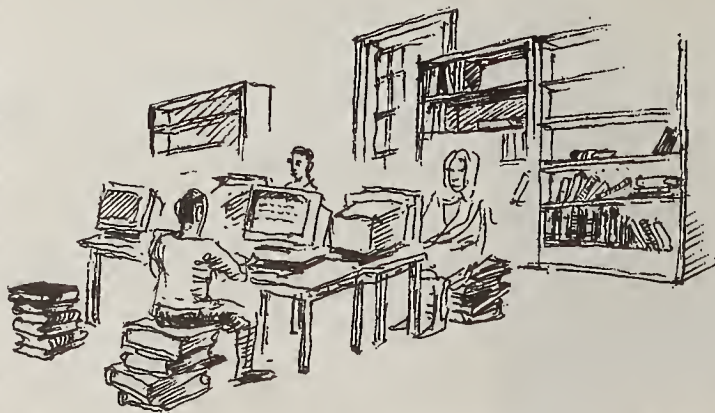
RECENT CONTROVERSY in the *New Yorker* and the *London Times Literary Supplement* highlights the possibility that books as we have known them are destined for destruction. Nicholson Baker's *Double Fold: Libraries and the Assault on Paper* postulates destruction not by rabid book burners but by an attrition unwillingly hastened by the very people who should protect books — publishers, librarians, teachers of literature, even authors themselves.

The day of bookless libraries is bitterly prophesied. Certainly, when I walk now into the McLaughlin Library, I have the feeling I've walked into a Microsoft establishment rather than into the Bodleian. Students by the dozens sit at the monitors on the main floor. They don't slouch, sprawl, crouch or lean as they would in the stacks upstairs — they sit like stick figures, motion reduced to index finger, eye and presumably mind. They don't write notes; they make printouts.

"Well, the content is the same, whether they read books or scan monitors," you say. But no. Such is the information overload that they usually have no time to access anything but the last moment's flash on the World Wide Web. And the global speeding of data/analysis/deduction/new experiment/newdata leaves no margin for retrospect or amplification up among the older books. Even students in the humanities, less data-driven than scientists, can't keep up. They must computer-access the latest on post-colonialism, post-modernism and chaos theory — no time to check up on colonies or pre-modern love lyrics, let alone the true chaos compacted in *King Lear*. Students come to University prepared for this booklessness because high school libraries have already converted to computer resource centres.

Librarians themselves are being converted from the idea that they should mind the books as protectors. They must check their holdings by the "double-fold" test. That means holding a corner of a page and folding it back and forth to see if the paper cracks. If it does, the book is scrapped. It's not considered worth shelf space, regardless of its contents.

The rationale is that the contents will be safe in microform



anyway. Replacing books with electronic records makes sense in the same way saving newspapers on microfiche does. The costs of filming and storing the film are much lower than the cost of storing the fragile papers. Microform has also been used for many years to duplicate rare books, to save them from heavy use. Problems of space have led to the deep storage of the rare originals, often far from the library itself and, in effect, irretrievable without major effort. Now the microprocessing techniques are being turned on books in general, in the interests of space saving and preservation. Voilà. We are on the way to a bookless library.

The production of new books in the old print and paper form decreases by the moment, both in quality and variety. Bookstores (mostly superstores, few little corner shops) offer best-sellers by the yard, but very few single copies of offbeat books. Publishers not only discourage new authors, but they also demand machine-accessible discs instead of manuscripts from established writers.

One friend of mine, a highly successful author of mystery stories, tells me her publisher expects her next book to be issued only as a CD. She predicts the coming of bookstores resembling video outlets — "Blockbuster Books Inc." We will pick up an empty box with the title of the "book" and take it to a desk where the disc will be handed over, to be placed in a hand-held

scanner. When we finish, back goes the disc to the store — no problem of storage, no need for bookshelves.

"This gimmick, self-illuminated, can be read in bed without disturbing one's partner," my friend says — and maybe that's the extent of its value. No nice paper texture, no lingering marginalia memory of earlier readers' responses, no connection with one's own happy experiences of a lifetime of paper-book reading.

Dear colleagues, I must warn you that one of the rites of retirement is called: "What shall I do with my books?" You have lived and worked in a book-lined office. Your mate says: "Don't even think of bringing another book home — not another bookshelf will I build, not ever." Okay, you think, I'll donate this precious cargo to the li-

brary. Well, the library will give you a tax benefit for any book they accept from you, but they will ship almost everything on to some unspecified destination (where, I presume, the double-fold disposal technique is hard at work). Your teaching texts, your paperback friends, your intellectual buttresses will be trundled away on a dolly.

But then you will go home to the greatest joy of retirement. Books that you can read not at the pace of preparing to be an examiner or an article writer, but at whatever pace really suits you. Read with relish, with revitalization, with joy and laughter and a few sentimental tears. Your own books — real books, not flashes on a screen — smell of the apples you munched when you first read them. They have coffee rings where your hand shook, once, with the flash of recognition of some idea or emotion caught on the page. You'll begin to mind the books again — to try to do what they suggest, to accept their gifts of reassurance, continuity and vision.

Elizabeth Waterston is professor emerita in the School of Literatures and Performance Studies in English. Her recent book Rapt in Plaid: Canadian Literature and Scottish Tradition was designed to bring to mind two sets of books, Canadian and Scottish, that meant a great deal to her while she was growing up and while she was teaching literature at U of G.

Popular Supplement Doesn't Help Burn Fat

New study reveals more truth about weight loss

GETTING THE SKINNY on the effectiveness and safety of nutritional weight-loss supplements can be a frustrating challenge for health-conscious consumers. But U of G researchers have found that a popular over-the-counter supplement doesn't help people burn more fat or promote significant weight loss.

Prof. Terry Graham, Human Biology and Nutritional Sciences, and graduate students Sara Chown, Laura Belfie and Heather Petrie recently completed a study on the effects of exercise and an ephedrine-caffeine-aspirin (ECA) supplement on obese men. ECA supplements have previously been thought to stimulate weight loss, but it's been unclear how. Results from the study

show that the men taking the ECA supplement lost a similar amount of weight to those not taking the supplement over a specific period of time. This means the supplement doesn't help people burn off extra calories.

"Using these supplements in an ongoing weight-loss program doesn't appear to offer any significant advantage, with the exception of possibly acting to suppress one's appetite," says Graham.

The research involved a sample of 24 obese men in a double-blind study. In other words, neither the subjects nor the researchers knew who was receiving the ECA supplement and who was receiving a placebo. Because ECA supplements have been linked to cardiovascular

problems such as high blood pressure, each subject was given a comprehensive medical screening and was monitored throughout the experiment.

"We wanted to make sure we could spot any problems as soon as they arose," says Graham.

All subjects ate a fixed amount each day and were required every second day to run or walk on a treadmill until they burned 500 calories. This was the only exercise involved in the study. Using this data, the researchers calculated that each man would lose half a kilogram a week over 12 weeks through diet and exercise alone.

Any extra weight loss could then be attributed to the supplement.

By the end of the experiment,

both the ECA and placebo groups had lost a similar amount of weight and fat, about seven kilograms. This suggests that the basal metabolic rate — the rate at which humans burn calories while resting — wasn't affected by the supplement and that if the supplement does work, it does so by decreasing the subject's appetite. In fact, many of the men taking ECA complained about eating the fixed amount of food each day, saying it exceeded their hunger.

Another result of the research served to partially dispel worries about the safety of ECA supplements. In addition to cardiovascular problems, ECA supplements have been linked to stomach cramps, prostate irritation and other side effects. But in this study, none of the

subjects experienced anything other than minor side effects such as agitation. Graham says it's important to note that the subjects took only the prescribed amount of supplement and avoided foods such as coffee, which alters the caffeine intake.

Graham says the biggest benefit of this research project was the opportunity to test ECA supplements on obese men.

"Most studies of this type focus on university-age students who are already fairly fit," he says. "With this research, we were able to look at obese men in the same age group who are likely to take these supplements, and we can now compare the results to learn more about ECA."

BY LUCAS HABIB
SPARK PROGRAM

THIS 1922 LINCOLN IS A CLASSIC

*U of G's beloved chancellor will celebrate his 80th birthday with a fund-raiser
for scholarships that reflect his belief in the power of education*

By SUZANNE SOTO

IT'S A TUESDAY NIGHT IN MID-OCTOBER, and a light rain mixed with strong winds greets the parents, siblings, grandparents and children of the approximately 200 U of G graduands walking into War Memorial Hall to receive their degrees at fall convocation.

Inside the packed auditorium, people speak in hushed tones, the poor weather having cast a bit of a pall on an otherwise joyous occasion. As the convocation procession begins, however, both the audience — and spirits — immediately rise, particularly when U of G chancellor Lincoln Alexander enters the hall.

His left hand holding a cane, his right reaching out to other outstretched hands in the crowd, Alexander moves forward slowly, stopping periodically to address people as he goes.

"Hello, how are you?" he says to someone in his trademark deep voice. "Thanks for coming out."

He is tall and imposing, but at 79 years of age, there is a slight frailty to his movements now, especially as he climbs the four or five steps up to the hall's stage to make his way to his seat. Following several speeches — to which Alexander listens attentively, never taking his eyes off each speaker — the graduands line up and, one by one, walk up to the stage to be hooded by a University official and congratulated by the chancellor. In greeting each person, he invariably holds both of their hands.

"I clasp their hands and thank them for working so hard," he explains later. "I might tell them I like their height or what they're wearing. I try to make the event as personal as possible for them, so they don't feel like they're sardines in a factory."

Chancellor since 1991, Alexander has individually congratulated more than 20,000 graduates over the past decade. As the University's titular head and main envoy, he has also met thousands of others, including alumni, high school students, faculty, renowned scholars from around the world and members of the general public. That, he says, is one of the most enjoyable aspects of the chancellor's job.

"I am very social. I like being with people. In fact, I like to be called Linc and to 'work the room,' as I call it."

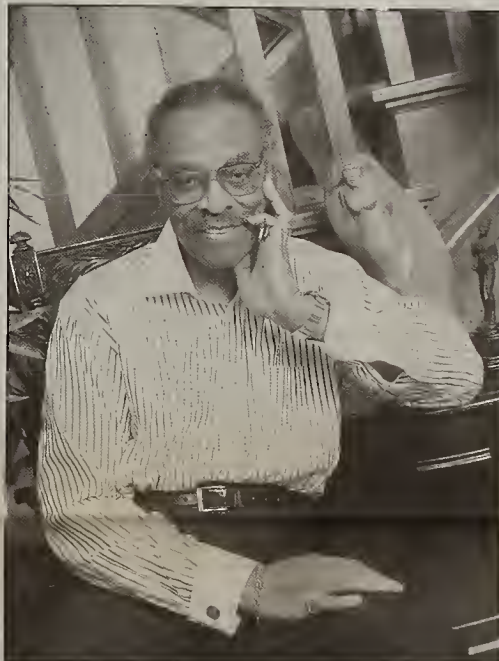
Extremely personable, charismatic and unpretentious, Alexander has been 'working the room' — to great success — for nearly four decades. A former lieutenant-governor of Ontario, he has also been a member of Parliament, federal minister of labour, a United Nations observer and chair of the Workers' Compensation Board of Ontario. His life has been described as one of extraordinary firsts.

Born in Toronto in 1922 to West Indian working-class parents — his mother, Mae Rose, was a maid, and his father, Lincoln MacCauley, was a railway porter — Alexander grew up in Toronto and New York City. Back in Canada at age 20, he enlisted in the Royal Canadian Air Force during the Second World War and served with units in Quebec, Ontario, Manitoba and British Columbia. He was honourably discharged with the rank of corporal.

Following the war, Alexander settled in Hamilton, where he married Yvonne Harrison in 1948 and attended McMaster University, graduating in 1949 with a bachelor of arts. He went on to Osgoode Hall Law School and was called to the bar in 1953.

"My mother was the one who encouraged me to go to school," he says. "She was right, of course. An education is what enabled me to serve as an MP, minister of the Crown, lieutenant-governor and now chancellor. My education has always been my empowerment."

After practising criminal and real estate law for several years, he was persuaded to enter politics by former Progressive Conservative prime minister John Diefenbaker. In 1968, Alexander was elected MP for Hamilton West, becoming the first black



person to be elected to the House of Commons. He was re-elected four times before stepping down in 1980. During his years in Ottawa, he served as an observer to the United Nations in 1976 and 1978 and was appointed labour minister by then prime minister Joe Clark in 1979.

From 1980 to 1985, Alexander chaired the then Workers' Compensation Board. In June 1985, he was sworn in as Ontario's 24th lieutenant-governor — again, the first visible minority to hold the post. He served until 1991.

"We are a wonderful university, with a great reputation for excellence and professionalism. That's why kids are always trying to get in here, because it's a very good institution, and whenever I can, I let everybody know it."

While in office, Alexander always strived to be open and accessible — to his constituents, to politicians, to anyone who wanted to speak with him.

He recalls a time during his term as lieutenant-governor when, unbeknownst to him, his staff were being prevented from seeing him. "One particular member of the staff felt she had to approve my appointments first, and I didn't know that. One day, somebody said to me: 'Your Honour, you're always talking about the great family we have in the office and yet, why can't we come and see you?' That's when I found out staff were being denied access to me. I immediately changed that, and I said to staff that if any of them wanted to talk to me, they could walk right in — just knock first!"

A tell-it-like-it-is approach mixed with a subtle sense of humour is another Alexander trademark. "I am not good at telling jokes, but I am not very serious, if I can put it that way. I am serious when I have to be, but I believe in laughter and in fun."

Adding that he's also never been "stuffy" or one to insist on being addressed by his many honorifics, Alexander does say he has appreciated each and every recognition and award bestowed on him. These include appointments as a Companion of the Order of Canada and Officer of the Order of Ontario, and the naming of three schools in his honour, as well as a road in Hamilton — the Lincoln M. Alexander Parkway, known as "The Linc."

A distinction he says he was excited and delighted to accept was his appointment as the University of Guelph's sixth chancellor.

"I knew about Guelph before it knew about me because a lot of West Indian students had been coming here for decades to attend the vet school and the agricultural school. So when I was approached to be chancellor, I was thrilled."

He adds that he feels "very fortunate" to be associated with U of G. "We are a wonderful university, with a great reputation for excellence and professionalism. That's why kids are always trying to get in here, because it's a very good institution, and whenever I can, I let everybody know it."

President Mordechai Rozanski notes that the U of G community has always returned its beloved chancellor's great affection. Exemplifying this is the fact that last year, Alexander had the distinction of being re-elected chancellor for a fourth term — the only chancellor in the history of the University to have done so — and by acclamation.

"He is one of the jewels in our crown," says Rozanski. "For more than a decade, we have benefited from his steadfast support. He has been a tireless advocate, friend, ambassador and fund-raiser, always embodying the values and ideals of this university at its best. He inspires every student he graduates with the promise of a limitless future."

And Alexander continues to give to the University. On Dec. 13, a group of Toronto business and community leaders will host a gala dinner at the Fairmont Royal York Hotel in celebration of his 80th birthday on Jan. 21. At the chancellor's request, the party will help raise funds for two new U of G scholarships.

Starting in September 2002, the Lincoln Alexander Chancellor's Scholarships will be awarded annually to entering students of academic excellence who are aboriginal, a visible minority or disabled. The students selected must have made a significant contribution to their schools and communities and demonstrate the potential to become leaders in society.

"These scholarships are very important to me because they represent my lifelong and heartfelt belief in the power of education and the importance of focusing assistance on those who are sometimes overlooked," Alexander says.

The campus community will also have an opportunity to help the chancellor commemorate his birthday and to thank him for his contributions. On Jan. 23, all members of the University are invited to attend a celebration in the University Centre courtyard, starting at noon. U of G is also creating a tribute book for Alexander that will contain messages from friends and loved ones from across Canada and beyond, including Guelph faculty, staff, students and alumni.

"I truly am blessed," he says. "I am happy. I am in reasonably good health. My brain is still good and I can still function. I am also very busy. I have approximately 25 engagements a month. They vary from board meetings, parties, dinners, the opera. My wife, Yvonne — my partner of more than 50 years — died about 2½ years ago, and I don't want to sit at home and cry, so I try to keep busy. When I am at home, I like spending time with my son, Keith, my daughter-in-law, Joyce, and my two granddaughters, Erika and Marissa. I am very fortunate. I have a good life and I am very content."

PHOTO BY ROY TIAN

LETTERS

WHAT IS THE UNIVERSITY'S POSITION?

Since Sept. 11, the "war on terrorism" has become an excuse to curtail hard-won civil and individual rights. Police are given more resources to spy on citizens, people who speak out are demonized and harassed, and representatives of trade unions have been arrested for merely carrying goggles or a bandana to protect themselves from police action during legitimate demonstrations.

In this climate of repression and the criminalization of dissent, what is the University of Guelph's position on free speech, critique and academic freedom?

Universities are the last bastion of alternative ways of seeing the world and the first target for repressive regimes across the globe. Will the University of Guelph now stand publicly for the tradition of free critical speech "without deference to established doctrine"? Will it stand against the latest police attacks on peaceful demonstrations, the surveillance of faculty and students, and the mounting witch hunt for dissenting voices under the so-called "anti-terrorist" campaign?

Jennifer Sumner, PhD Candidate
Rural Studies Program

High-Tech CEO Stresses Excellence In Education

MORE THAN 100 PEOPLE were in attendance Nov. 7 at the Guelph venue of Visionary Seminar 2001, a video conference sponsored by Bell and organized by U of G's Office of Open Learning in collaboration with the Office for Partnerships for Advanced Skills and the Chamber of Commerce.

A talk by Mike Lazaridis, founder and CEO of Research in Motion, on wireless breakthroughs was broadcast by satellite to universities and colleges across Canada. Speaking from the University of Waterloo, he also stressed the importance of pursuing excellence in education for the future of Canada.

COU Launches Web Site For High Schools

The Council of Ontario Universities (COU) has launched the Web site myfuture.ca, an online resource designed to help high school students identify their interests, relate them to programs offered at Ontario universities and, with the click of a mouse, connect to

any institutions offering those programs.

President Mordechai Rozanski, president of COU, and Dianne Cunningham, minister of training, colleges and universities, officially launched the program Nov. 1 at St. Joseph's College School in Toronto.

Agriculture Breaks Down Communication Barriers

Courses connect Guelph students with Indian counterparts in Tamil Nadu

AGRICULTURE was the language U of G graduate students spoke this summer to overcome communication barriers during a three-week study program in India. The students, all members of the School of Rural Extension Studies, discovered they didn't actually have to speak Tamil to establish relationships with students in Tamil Nadu.

"Agriculture was a unifying topic," says student Cecilia Fernandez. It opened up discussion to many other related topics such as women's roles in agriculture, technology transfer, market forces and poverty alleviation, she says.

Fernandez was one of eight students who travelled to India to work with counterparts at Tamil Nadu Agricultural University, a research-based institution with five campuses and 2,000 students. Profs. Jana Janakiram and Doug Pletsch, who accompanied the group, say the Guelph students took the initiative for organizing and funding the trip to provide a more meaningful environment for two courses offered by the School of Rural Extension Studies—communication and interpersonal relations, and international extension studies.

While in India, the students learned how to interact in a cross-cultural situation and picked up skills useful for their work in rural extension.

"The exchange was good exposure to adapting to another culture," says student Rose Bouwers. "It was great to see first-hand how important it is to build relationships to be effective in cross-cultural projects, and to learn how to work with communication differences."



U of G students pose with their counterparts at Tamil Nadu Agricultural University in India this summer. From left are Cecilia Fernandez, Seema Jagatram, Terah Sportel, Padma Chinnaswamy, Padma Rajagopal and Rose Bouwers.

PHOTO BY VERA PLETSCH

Since 1996, U of G and Tamil Nadu have had a good working relationship because of their collaboration on an ongoing Canadian International Development Agency-sponsored project to help Indian farmers learn about seed technology through distance education, says Janakiram. This positive relationship is why Tamil Nadu was chosen for the student program, he says.

Once in India, each Guelph student was paired with a Tamil Nadu counterpart. The pairs worked together and gave presentations to the larger group on topics such as verbal and non-verbal communication, marketing, social power structures and extension.

In addition to working at the university, the Guelph students spent a portion of their time in a village, where they learned about the infrastructure, organizations and govern-

ance of the villagers.

Thanks to this hands-on experience, the students say they have gained skills that will prove valuable in their current and future work, particularly in communicating and working with people from diverse backgrounds.

"I think any cultural exchange changes the way we view the world and other people," says student Jennifer Adam. "Not only does it give us appreciation for our own lives here in Canada, but it also helps us to understand why people do the things they do and minimizes misunderstandings."

Because of the success of the program, Janakiram is now working with current first-year rural extension graduate students to create a similar cultural exchange for next summer.

BY BLYTHE MCKAY

WOMEN'S CAMPUS SAFETY INITIATIVES

Call for Proposals - November 2001

CRITERIA FOR FUNDING

Support is for programs, services or departments dealing with women's safety. Priority will be given to new initiatives which have not been previously funded by this grant. Initiatives must be implemented between January 1 and August 20, 2002.

Demonstrate that the safety concerns of a broad range of women, or those particularly at risk, are being addressed. Demonstrate the expected impact of your proposal. We especially encourage submissions from or on behalf of the following at risk campus populations: women with disabilities, women shift workers, women in non-traditional studies, lesbians, bisexual women, women of colour, aboriginal women and women continuing education students.

There will be an information session on preparing a WCSI proposal on Friday, Nov. 16, 1 p.m., UC 441. Guidelines for applications are available at: Human Rights and Equity Office, the HREO website (<http://www.uoguelph.ca/hre/WCSI.htm>), GSA, CSA, Centre for Students with Disabilities, Munford Centre, Security Services and Student Housing.

Application deadline is 4 p.m., November 22, 2001. Send applications to: Women's Campus Safety Initiatives Proposal, Human Rights & Equity Office, University of Guelph, 519-824-4120, Ext. 3275.

THE WOMEN'S CAMPUS SAFETY INITIATIVES COMMITTEE
encourages proposals from all members of the University community
- Individuals or groups, faculty, staff & students.



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Martens Might Be Forest Sentinels

Researchers aim to determine if martens need old-growth forest habitat to survive and whether they are valid indicators of forest sustainability

OLD-TIME MINERS who used canaries to monitor the air quality in mine shafts understood the concept of animals as sentinels of the environment. Now, U of G researchers want to learn if martens are reliable indicators of another delicate ecosystem: Canada's forests.

Fur-bearing martens, which are similar to mink and sable, prefer wilderness forest habitats. Zoology professor John Fryxell, working with colleague Prof. Tom Nudds, Ian Thompson of the Canadian Forest Service, Jim Baker of the Ontario Ministry of Natural Resources (MNR) and a team of graduate students, hopes to determine whether martens need old-growth forest habitat to survive and whether they are valid indicators of forest sustainability.

Currently, MNR forest management guidelines use martens and pileated woodpeckers as sentinels. Ontario legislation requires large-scale commercial logging companies to submit a cutting plan for approval based on these guidelines. Companies must show that enough blocks of old-growth forest will be left so martens and other species will persist.

"For years, forest managers have grappled with effective measures of forest sustainability," says Fryxell. "Recent guidelines concentrate on the use of indicator species such as martens as a surrogate for other members of the boreal forest community. We're going to test the wisdom of this approach."

Martens are nocturnal animals, weighing about one kilogram, with a 25-centimetre furred tail. Their silky buff to brown fur with orange or creamy white throat patch is valued by trappers. Their territory is determined by the amount of dense forest

cover and availability of food. Martens prey on squirrels, mice and rabbits, but will also eat berries, insects and birds' eggs. Their only predators, owls and fishers, are thwarted by the marten's habit of crawling close to thick protective cover.

Fryxell's team wants to find out what environmental features are necessary for martens to survive in northern Ontario. (They're already an endangered species in Newfoundland because of habitat loss.) They are studying food supply, forest structure, depth of snow and availability of den sites in large forest study areas near Red Lake and Kapuskasing.

Each of the 200 martens to be studied is captured live in a camouflaged steel cage baited with jam and lard. The researchers then attach a handling cone to the steel live trap. It's a canvas sleeve with a funnel-shaped mesh cage to safely restrain each animal.

The marten is injected with an anesthetic to immobilize it for about 45 minutes while weight, measurements and sex are recorded. A superfluor tooth is extracted and its growth rings counted to determine age.

Each marten is marked for identification with a number tattooed in its ear and a two-cm microchip implanted between its shoulder blades. If an animal is caught again, the bar code in the microchip can be electronically scanned to trace its origin.

All females are fitted with soft-banded collars about the size of a wristwatch. A waterproof epoxy-coated radio transmitter, a watch battery and a 15-cm wire aerial will transmit the location of each released marten. The 30-gram transmitter has its own frequency and

will emit signals every 10 seconds. An H-shaped aluminum antenna, either hand-held or sitting on top of a truck, picks up the signals within a one-kilometre radius.

The research team monitors the martens for about a year, mapping changes in location to determine territory size. The transmitter emits a less-frequent signal when the marten

stops moving. Animals that have died are retrieved and examined to establish the cause of mortality. All data will be analysed to determine whether martens, as top carnivores, are indeed sentinels for other forest species.

"We need to know their requirements and how well they might serve as forest indicators," says Fryxell.

"We want to have the best legislation possible."

This work is sponsored by the Natural Sciences and Engineering Research Council, Canadian Forest Service, MNR, Forest Ecosystem Science Co-operative Inc. and Sustainable Forest Management Network.

BY SANDRA FORSTER
SPARK PROGRAM

Latonnell Conservation Symposium Focuses on Water, Health Issues

Walkerton tragedy was main driving force for this year's theme

FIVE HUNDRED PEOPLE, from students and technicians to CEOs, will discuss water and health issues at the eighth annual A.D. Latonnell Conservation Symposium Nov. 14 to 16 in Alliston.

"The Walkerton tragedy was the main driving force for this year's symposium focus," says conference organizer Peter Mitchell, a research associate in the Department of Land Resource Science. "Water quality in Ontario is uppermost in everyone's mind."

The symposium, sponsored by U of G's Centre for Land and Water Stewardship, Conservation Ontario and other partners, is the largest gathering of conservation professionals in the province, says conference chair Prof. Stewart Hiltz, newly appointed chair of the Department of Land Resource Science.

More than 160 speakers will give presentations on topics ranging

from drinking-water source protection and environmental health to agriculture, forestry and park management trends and opportunities. The presenters include conservation authority staff; municipal, provincial and federal government officials; representatives of environmental groups; academics; health professionals; and environmental consultants.

Keynote speakers are author Wayne Roberts, project coordinator of Toronto's Food Policy Council, and Chief Roy Russell, vice-chair of the Fraser Basin Council in British Columbia.

Ontario Environment Minister Elizabeth Witmer will also address the conference.

"The Latonnell Conservation Symposium is one of our major efforts to reach out and work with the professional conservation community," says Hiltz. "The students who

attend get a wonderful opportunity to rub shoulders with professionals in the field, exactly what Art Latonnell was hoping for when he left an endowment to the University of Guelph."

Five additional faculty and 16 Guelph students are involved in this year's conference as organizers, speakers or delegates. Two students, in particular, played instrumental organizational roles, says Mitchell: rural studies PhD candidate Lee-Anne Milburn and Susan McCook, a master's student in the School of Landscape Architecture.

Latonnell, a 1950 graduate of OAC, built a lifelong career in resource management and conservation prior to his death in 1991. His endowment to the University of Guelph increases educational and professional opportunities for students, conservation practitioners and professionals.

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EC Funds Two New Chairs in Canada

Continued from page 1

The European studies program is designed for students who seek a career in international relations, particularly in international business and administration, between Canada and Europe. It offers courses in languages and European culture, history and literatures, and is enriched by a study and work year abroad.

"The year abroad is a particularly attractive learning experience for students," says Pratschke. "Since Europe is such an important cultural and business partner of Canada, the advantages for graduates in the job market are important and relevant."

The program is growing in popularity because of its interdisciplinary nature and its relevance in today's world, says College of Arts dean Jacqueline Murray. There are currently 87 European studies majors, up from 66 in 1997.

"It's a program I'm really committed to growing," says Murray. "It allows students who believe they're going to end up in business to meld their business interests with a knowl-

edge of history, culture and society that's so important to success in a global economy."

Pratschke is currently based in London, England, where he is co-ordinating the Guelph-London semester this fall.

The Monnet Chair at Guelph is one of two new chairs the European Commission is funding in Canada, with the second at the University of Victoria. The first Monnet Chair in Canada, and the first created outside the European Union, was established at the University of Montreal in 1991.

Jean Monnet is generally recognized as a father of European integration. He was largely responsible for drafting the Schumann Declaration, which led to the creation in 1951 of the European Coal and Steel Community, the forerunner of the European Union. The commission's program is directed by the European University Rectors, who advise on all Monnet appointments.

BY STACEY CURRY GUNN

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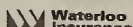


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U of G Ranked Third

Continued from page 1

In addition, our improved ranking in faculty research grant success, particularly in the humanities/social sciences and medical sciences categories, reflects the quality of our faculty and staff."

Among comprehensive universities, U of G rose nationally from third to second place in the "highest quality" section of the reputational category. This is based on surveys of more than 7,200 high school guidance counsellors, academic administrators, CEOs of major Canadian corporations and members of the public sector. Respondents rate universities in three categories: highest quality, most innovative and leaders of tomorrow. "Best overall" category represents the sum of the scores. Guelph was ranked second among comprehensive universities in all the reputational categories, including best overall. Among all three classifications of universities, U of G moved up from 10th to sixth place in the national reputation survey (see accompanying list).

In the data-based sections of the rankings, Maclean's uses 21 indicators in measuring overall quality. Guelph received four first-place rankings. Three were maintained from last year: average entering grade of students, proportion of students with a 75-per-cent average or higher and percentage of students who graduate. In the fourth — largest percentage of operating expenses dedicated to student services — U of G rose to first place from second.

Overall, the University had a top-three ranking in nine of the 21 indicators and maintained or improved its ranking in 15 areas. The areas Guelph held ground in include

student awards (ranked second), faculty with PhDs (second) and library acquisitions (seventh). Major gains included: number of social sciences and humanities grants (ranked fifth, up from sixth), number of medical and science grants (second, up from third), student scholarships and bursaries (fourth, up from sixth) and alumni support (second, up from seventh).

U of G lost ground in areas most tied to provincial operating grant support, something that has long been of concern to all universities and received prominent attention from Dowsett Johnston. She noted that nine of Ontario's 17 universities slipped in the rankings this year and said this can be linked to low funding, which is compromising quality. "It's a very sad story," she said.

She added that universities have not received adequate funding to hire professors and cope with the wave of students expected as the fifth year of high school is phased out.

BY LORI BONA HUNT

"Best Overall" Reputation
Winners: (includes all three
categories of universities:
medical/doctoral, comprehen-
sive and primarily undergrad)

1. University of Waterloo
2. University of Toronto
3. McGill University
4. Queen's University
5. University of Alberta
6. University of Guelph
7. McMaster University
8. University of British Columbia
9. Acadia University
10. Simon Fraser University

CLASSIFIEDS

FOR SALE

Entertainment/wall unit with china cabinet, solid wood, excellent condition, 822-5435.

1991 Eagle 2000 GTX, fully loaded, certified, e-tested, John, 837-2848.

1986 Plymouth minivan, engine six years old, e-tested, 175,000 kilometres, runs well, 766-8465 after 5 p.m. or zalizade@uoguelph.ca.

Couch, two chairs, rocking chair, chrome kitchen table, fridge, reasonable prices, 822-9142 evenings.

Two general-purpose English saddles, size 17, good condition, one with stirrups and belly strap, the other just the saddle, 836-9241 after 6 p.m. or marlene@uoguelph.ca.

Three-drawer office desk, grey metal; three-cushion chesterfield, beige and brown; chesterfield and love seat, modern style; chrome TV stand; chrome kitchen table and chairs; coffee table, Ext. 3561, 821-5412 weekday evenings or ablosic@uoguelph.ca.

Microwave, bicycle buggy, send e-mail to ltotoxopu@uoguelph.ca.

Two tape recorders, almost new, send e-mail to dmcwilli@uoguelph.ca.

Older German cello, full-sized 4/4, hard case and bow, full-toned instrument with playable setup; student-model 4/4 German-made cello, bag and bow; cello bows, 763-8481 or send e-mail to tmaurice@gto.net.

90-gallon aquarium, light canopy, filter system, accessories; 30-gallon aquarium, light canopy and stand, all in good condition, Chris, 827-0247 or cjastreb@uoguelph.ca.

FOR RENT

Three-bedroom apartment to share with female grad student, spacious, hardwood floors, close to amenities, on U of G express bus route, parking, laundry, non-smoking female preferred, \$425 a month inclusive, available Jan. 1, earlier negotiable, send e-mail to h_ennis578@hotmail.com.

Furnished three-bedroom heritage house, two studies, close to campus, available Jan. 1 to May 15, 824-9203 or ncarson@uoguelph.ca.

Furnished two-bedroom bungalow, old University area, close to campus, appliances, parking, non-smokers, available for winter 2002 semester, \$1,100 a month, Ext. 2931.

Furnished bedroom in two-bedroom basement apartment for responsible female student to share with same, 10-minute walk to campus, non-smoker, no pets, no parking, \$350 a month inclusive, available January to April 2002, Sharon, 821-6276.

WANTED

Dollhouse furniture, Ext. 3568 or m.langlois@exec.uoguelph.ca.

Two round oak tables, about four feet in diameter, wanted by the College of Arts dean's office, Susan, Ext. 6724.

Garage or covered parking space in the Stone Road Mall area for winter months, Ellen, 822-0159.

To share two-bedroom apartment or seeking a bachelor/basement apartment with parking and laundry, needed Dec. 1, 416-819-1094 or e-mail to tariq@ca.inter.net.

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Design your own wake-up calls, Joan, 835-6170.

Music lessons, 20 years' experience, 835-6170.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Submit items to Linda Graham on Level 4 of the University Centre, fax to 824-7962 or send e-mail to lgraham@exec.uoguelph.ca. For commercial advertising, contact Brian Downey at Ext. 6665 or b.downey@exec.uoguelph.ca.

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EVENTS

ARBORETUM

The Arboretum's Theatre in the Trees presents the comedy *Ghost of a Chance* by Flip Kobler and Cindy Marcus Saturdays until Dec. 15. Doors open at 6 p.m., the buffet is at 6:30 p.m. and showtime is 8 p.m. Cost is \$49. To order tickets or special seating, call Ext. 4110.

The Arboretum Auxiliary's Sunday afternoon walks continue Nov. 18 with "Weather Wisdom" and Nov. 25 with "Pioneering the Arboretum." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

The Kanata Native Dance Theatre performs Nov. 20 at 6:30 p.m. at the Arboretum Centre. Tickets are \$5 and are available at the Arboretum or downtown at Simply Wonderful.

ART CENTRE

The Macdonald Stewart Art Centre unveils its latest sculpture commission, *In the Pines* by Andrew Hunter, Nov. 22 at 7:30 p.m. The unveiling will be followed by a reception, artist's remarks and the launch of an artist's book at 7:45 p.m. Hunter will also give a brown bag lunch talk Nov. 27 at noon.

Opening Nov. 22 at the art centre is the Art Gallery of Ontario exhibition "Antiquity Revisited: The 19th Century." It continues until Feb. 6.

ATHLETICS

The Gryphon volleyball teams host Queen's Nov. 17, with the men playing at 1 p.m. and the women at 3 p.m. The men's team also takes on Windsor Nov. 21 at 8 p.m. and McMaster Nov. 24 at 3 p.m. The women host Ottawa Nov. 24 at 1 p.m.

The basketball Gryphons are at home to Queen's Nov. 16, Toronto Nov. 17 and Brock Nov. 28, with the women's team playing at 6 p.m. and the men's at 8 p.m. The men's team also takes on Brock Nov. 29 at 7:30 p.m.

The women's hockey team hosts Queen's Nov. 16 at 7:30 p.m., Toronto Nov. 17 at 7:30 p.m., Laurier Nov. 22 at 7:30 p.m. and Brampton Nov. 27 at 7:30 p.m. The men's team is at home to the University of Quebec at Trois Rivières Nov. 17 at 2 p.m. and Concordia Nov. 18 at 2 p.m.

U of G's co-ed swim team hosts Western Nov. 30 at 5:30 p.m.

COLLOQUIUM

The Rural Studies Colloquium presents Prof. Jorge Nef, Rural Extension Studies, discussing "Doing Research on Human Insecurity: A Multi-Sided Interdisciplinary Agenda and Its Relevance to Sustainable Rural Communities" Dec. 3 at 10 a.m. in Landscape Architecture 134.

CONCERTS

The Thursday noon-hour concerts continue Nov. 15 with the U of G Early Music Ensemble, led by Larry Beckwith; Nov. 22 with the U of G Concert Winds, conducted by John Goddard; and Nov. 29 with Student Soloists' Day. The concerts are held in MacKinnon 107. Admission is free, but donations are appreciated.

The U of G Choir and Chamber Choir, conducted by Marta McCarthy, present "Requiem and Remembrance" Nov. 24 at 8 p.m. at St. George's Anglican Church. The concert will feature choral music, organist Barrie Cabena and an African percussion ensemble. Admission is \$12 general, \$8 for students and seniors.

The U of G Concert Winds, led by John Goddard, perform Christmas music and works by John Philip Sousa, Clare Grundman, Clifton Williams and Louis Armstrong Nov. 28 at 6 p.m. in Peter Clark Hall. Admission is free.

Prof. Howard Spring conducts the Jazz Ensemble Nov. 29 at 8 p.m. at the University Club. The program will include compositions by Miles Davis, Duke Ellington, Billie Holiday and Oliver Newton. Admission is \$2 at the door.

The U of G Orchestra, conducted by Henry Janzen, will perform Mozart's *Concerto for Violin and Viola* as well as works by Liszt and Aaron Copland Nov. 30 at 8 p.m. at the River Run Centre. Tickets are \$16 general, \$8 for students and seniors, and are available by calling 763-3000.

FORUM

The School of Languages and Literatures Forum presents Prof. Andrew Sherwood discussing "Boundaries Between Roman and Non-Roman in North Africa: A New Trajanic Inscription" Nov. 29 at 4 p.m. in the University Club on UC Level 5.

LECTURES

The annual Kenneth Hammond Lectures on Sustainable Development sponsored by the Faculty of Environmental Sciences conclude Nov. 15 with Dave Lavigne, science adviser for the International Fund for Animal Welfare, discussing "Ecological Footprints, Double-speak and the Evolution of the Machiavellian Mind" at 7 p.m. in War Memorial Hall. Admission is free.

The School of Fine Art and Music's visiting speaker series continues with talks by Louise Wilson, an installation, new media and performance artist from London, England; Nov. 22 and Doug Kirtan, a painter and professor at the University of Waterloo, Nov. 28. The talks begin at 12:30 p.m. in MacKinnon 114.

NOTICES

John Challis, scientific director of the Institute for Human Development and Child and Youth Health at the Canadian Institutes of Health Research, will visit campus Nov. 20 to speak about the institute, its mandate and goals. The presentation runs from 1:30 to 2:30 p.m. in HAF 129 and is open to the entire University community. Individual meetings are being organized with Challis to follow the presentation. Anyone interested in arranging a meeting with him should contact Lisle Terry at lerry@uoguelph.ca.

Fair November, U of G's annual exhibition and show of fine Canadian crafts, runs Nov. 15 to 18 in the University Centre. Hours are 10 a.m. to 9 p.m. Thursday and Friday, 10 a.m. to 6 p.m. Saturday and 11 a.m. to 5 p.m. Sunday. Admission is free.

The Canada Council for the Arts seeks nominations for the 2001 Molson Prizes and the 2002 John G. Diefenbaker Award. Nomination deadline is Dec. 1. For more details, visit the Web site www.canadacouncil.ca/prizes or contact Carol Bream at 613-566-4414, Ext. 5041, or Carol.Bream@canadacouncil.ca.

"Globalization and Post-Colonialism II: Intimate and Interactive," a conference for graduate and undergraduate students to be held April 5, 2002, in Montreal, is calling for papers. The international conference will bring together student writers and artists who will examine the relationships among art, politics and ethics. Abstracts of 250 words must

be submitted by Dec. 3 to Prof. Susan Douglas, Fine Art and Music. A dress rehearsal for U of G students who will be presenting papers at the conference will be held in January. For more information, call Douglas at Ext. 3127.

The Christian Farmers Federation of Ontario will hold its annual convention and banquet Nov. 29 and 30 at the Holiday Inn in Cambridge. Registration deadline is Nov. 26. For more information, visit the Web site www.christianfarmers.org, call 837-1620, fax to 824-1835 or send e-mail to cfomail@christianfarmers.org.

SEMINARS

The fall biochemistry seminar series continues Nov. 22 with Bernardo Trigatti of McMaster University discussing "The Scavenger Receptor SR-BI in Lipoprotein Metabolism and Atherosclerosis" at noon in MacNaughton 222.

Next up in the Department of Physics seminar series is Andrew Hime of the Los Alamos National Laboratory in New Mexico discussing "Shaking Hands With the Weak Interaction" Nov. 15. On Nov. 20, Tibor Papp of the Institute of Nuclear Research of the Hungarian Academy of Sciences considers "How Accurately Do We (Need to) Know X-Ray Physics?" The seminars begin at 4 p.m. in MacNaughton 113.

"Household Responses to Public Home-Care Programs" is the topic of Mark Stabile of the University of Toronto in the Department of Economics seminar series Nov. 16. On Nov. 23, Diego Restuccia of the University of Toronto considers "A General Equilibrium Analysis of Parental Leave Policies." The seminars begin at 3:30 p.m. in MacKinnon 237.

The Axelrod Institute of Ichthyology seminar series continues Nov. 20 with Andrew Muir of the Chippewas of Nawash exploring "Conflicts in Age Determination of Whitefish." On Nov. 27, the topic is "Changing Sex on a Rope in the Sea" with graduate student Nick Preston. The seminars begin at 12:30 p.m. in Axelrod 168.

"The Immunoglobulin Receptor Complex in B Cell Development" is the focus of Michael Ratcliffe of the University of Toronto in the Department of Pathobiology seminar series Nov. 23 at 2 p.m. in OVC 216.

TEACHING SUPPORT

Teaching Support Services' fall workshop series for campus instructors continues with "Introduction to Digital Imaging" Nov. 21, "Teaching With PowerPoint: Advanced" Nov. 22 and "HTML III: Advanced Features for Your Course Web Site" Nov. 26. Detailed descriptions are on the Web at www.tss.uoguelph.ca. Online registration is required.

THESIS DEFENCES

The final examination of PhD candidate Sukrit Thaidom, Food Science, is Nov. 20 at 9 a.m. in Food Science 241. The thesis is "Effect of k-Carrageenan on Phase Separation of Milk Proteins and Polysaccharide Stabilizer in Sucrose Solution Simulating Ice Cream Mix System." The adviser is Prof. Doug Goff.

The final examination of Hilary Newell, an M.Sc. candidate in the Department of Family Relations and Applied Nutrition, is Nov. 22 at 2:30 p.m. in HAF 331. The thesis is "The Association Between Parenting Styles and Adult Monozygotic Twins' Self-Esteem and Depression." The adviser is Prof. Gerald Adams.

WORKSHOPS

Computing and Communications Services' workshops for faculty and staff continue with "Getting Started as Your Department's Webmaster" Nov. 16, "Introduction to Adobe PDF" Nov. 22, "MS Access" Nov. 23, "Corporate Time Basics" Nov. 26, "Introduction to Netscape Messenger" Nov. 27 and "Getting Around Excel" Nov. 30. Detailed descriptions are available on the Web at www.uoguelph.ca/ccs/training. Registration is required.

COMMUNITY EVENTS

The Canadian Federation of University Women meets Nov. 27 at 7:30 p.m. at the OMAFRA Conference Centre, 1 Stone Rd. W.

The Waterloo-Wellington Wildflower Society meets Nov. 14 at 7:30 p.m. at the Arboretum. Allan Anderson will discuss orchids of Ontario.

The next meeting of the Wellington County branch of the Ontario Genealogical Society is Nov. 27 at 7 p.m. at the Unitarian Church, 122 Harris St.

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Dixon Heads for NASA

Plant agriculture prof gets research fellowship

THE NEXT STEP in Prof. Mike Dixon's work to send humans to Mars is a sabbatical at the National Aeronautics and Space Administration's (NASA) Kennedy Space Centre. Dixon, a faculty member in the Department of Plant Agriculture, has been awarded a National Research Council/NASA Fellowship from December to May.

He will work with colleagues at NASA to test instruments and methods that measure how plants respond in environments similar to that of space travel, where the atmospheric pressure varies. They will also establish practical guidelines for applying these techniques on the International Space Station and in greenhouses designed for growing plants on Mars.

Gaining a better understanding of how pressure affects plants is the next key environmental issue for scientists in their bid to send humans on extended space missions, Dixon says.

"Human exploration of space must be based on a biological life-support system. It is now accepted by space agencies around the world — NASA, the European Space Agency, the Canadian Space Agency — that during long-term missions, such as the construction of a lunar or Mars observatory, the needs of the crew can be met only by developing self-sustaining, renewable life-support systems based on plants and micro-organisms."

Continued on page 8



Prof. Elizabeth Boulding wants to determine if evolution can rescue a species from extinction.

PHOTO BY MARTIN SCHWALBE

Working at a Snail's Pace

Zoologist studies marine snails to answer questions about evolution

ZOLOGY PROFESSOR Elizabeth Boulding is answering some big questions about evolution with the help of some very tiny creatures.

For the past eight years, Boulding has been studying marine snails native to Vancouver Island's West Coast to determine if evolution could rescue a species from extinction, even when that species is small in number and forced to adapt relatively quickly.

"We wanted to investigate factors that determine whether a population will adapt to change in the environment without going extinct," she says. Boulding chose *Littorina subrotundata* — snails that grow to be about three to five millimetres in length — because they live in a rocky and wave-exposed region with few predators and have smooth, thin shells. She wanted to see if the snails would develop thicker shells to resist predators if there was a sudden "invasion."

But fooling with Mother Nature isn't easy. Boulding had to introduce a predator and convince it to stick around long enough to test her theory, then find a way to make sure the snails ventured into dangerous territory.

"We simulated an invasion with purple shore crabs," says Boulding. Five times the size of the snails, the crabs love to snack on thin-shelled creatures. "If the snails have thicker shells, it makes them less preferable prey," she says. "We knew the snails would need to almost double the thickness of their shells."

Boulding built "crab condos" out

of cement to give the crabs refuge, making it possible for them to live in the wave-swept areas. "It took a few tries to come up with the exact living conditions — very cold and wet — that the crabs preferred."

She encouraged them to stay by ensuring their next meal was never far away. "These are lazy crabs. They won't leave their homes for long, so they only want to move about two metres from their condos."

Boulding tethered snails to fishing line with waterproof epoxy glue, making sure that some of the snails ended up right near the crabs' "front doors."

"We tethered them at different distances so we could make comparisons based on distance from the crab condos," she says.

Every May, Boulding makes the trip to Vancouver Island to release another 90 crabs and collects the empty snail shells, which are still attached to the fishing line. "You can take one look at the shell fragment and tell what ate it," she says. She brings the shells back to her Guelph laboratory, where they are carefully measured and studied.

She also estimates snail migration between species that have adapted to the crabs and those that have not using molecular markers called microsatellites. The microsatellites involve using DNA as biological tags on the snails. "High migration from nearby populations that are not adapted to crabs will prevent the snails from developing thicker shells," she says.

Based on her research, Boulding has developed a theoretical model to

help her predict whether the snails will evolve enough to survive. This was an important step not only to her research, but also for others in her field because the model can be applied to any species.

"It isn't just for snails. Any time there's an invading species, you can use this model to predict the effect on a native species."

The model tells her that based on the findings thus far, the snails should have increased their shell thickness enough to survive, and more important, it should have become a genetic trait, rather than something developed in just one generation.

Boulding will have her first real chance to test her theory and model predictions next summer, when she should have a full 10 generations of snails to study and make comparisons.

"If we're lucky, we get two generations of snails a year, and you really need 10 generations to see results."

Boulding, who joined the University of Guelph in 1993, has published some of her findings from this project in academic journals, including *Heredity*, *Proceeding of the Royal Society B*, *Marine Biology* and the *Journal of Experimental Marine Biology and Ecology*.

Her research is funded in part by a Premier's Research Excellence Award and the Natural Sciences and Engineering Research Council of Canada.

BY LORI BONA HUNT

Three Receive New CFI Support

Guelph hosts national funding announcement

THE CANADA FOUNDATION for Innovation (CFI) came to campus Nov. 15 to announce it will invest \$17.6 million in new research projects at 33 Canadian universities.

Three U of G professors are among the 92 faculty who will receive new support from CFI's New Opportunities Fund, announced CFI senior vice-president Carmen Charette and Guelph-Wellington MP Brenda Chamberlain.

The fund is intended to launch the careers of new and talented faculty members, help universities retain existing researchers and attract high-calibre talent. It covers 40 per cent of the infrastructure costs of a project, with remaining funds coming from the province and private- and public-sector partners.

Guelph's recipients, who received a total of more than \$550,000, are Prof. Carolyn Kerr, Clinical Studies, for her work on the pathophysiology of lung diseases in horses and cattle; Prof. Stephen Seah, Microbiology, for his study on effective strategies to fight chlorinated pollutants in Ontario; and Prof. Jinzhong Fu, Zoology, for his research on loss of biodiversity.

During the funding announcement, the CFI also recognized 13 other U of G professors who have previously received some \$4 million from CFI's New Opportunities Fund. Through provincial and private matches, that \$4 million has grown to more than \$10 million, said president Mordechai Rozanski.

"This is an investment in our most important capital — intellectual capital," he said. "This vital investment in Guelph's talented people and in our research capacity will help us transform discovery into benefit for our society and economy. It provides vital research infrastructure, equipment and technology that will help our faculty advance Guelph's ambition to be Canada's innovation leader in creating, transmitting and applying knowledge."

In total, the CFI has invested some \$23.5 million in U of G

Continued on page 4



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Paris Semester Winter 2003

The Paris Semester Committee invites applications from interested faculty for the position of Coordinator, Paris Semester Program for winter semester, 2003. This program is broadly based, drawing students from across colleges, and integrates the rich resources of Paris into each of the courses offered. The coordinator supervises all academic activities.

Duties and responsibilities of the coordinator include:

- Organizing the content of the semester
- Recruiting, interviewing and selecting students
- Making travel and accommodation arrangements
- Supervising the semester in Paris
- Teaching at least two of the courses offered during the semesters
- Arranging for sessional instructors in Paris

**Interested faculty are requested to contact
by Monday, December 10**

Dr. Jay Lampert

Chair, Paris Semester Committee
Ext. 3220 (Philosophy Department)
jlampert@uoguelph.ca

TOWARD 2010

Committee Identifies Issues Related to Younger Students

BECAUSE THE MAJORITY of Ontario high school students entering their first year of university have traditionally been 19 years old, with the rest being 18, institutions have developed and implemented policies to accommodate, integrate and welcome these students as adults into the post-secondary environment.

Now, however, as a result of the Ontario government's reforms to the secondary school curriculum taking effect in 2003, almost all incoming university students will be under 19, and some will be under 18 and considered "minors" under the law.

Brenda Whiteside, associate vice-president (student affairs), says the law treats minors differently than young adults with respect to such issues as contracts, accommodation, alcohol and the duty of care owed to minors. Because of that, universities are being asked to consider how they will deal with these younger students.

At U of G, this issue is being taken very seriously, says Whiteside. "In Student Affairs, we see the matter as broader than us having younger students, although this is certainly part of it. To try to anticipate some of the challenges ahead, we pulled together a committee in 2000 to identify areas we need to focus on as we plan for the next decade."

Among the issues the committee is probing are:

- Confidentiality regarding academic records and judicial matters

for students under 18. "The legal issues, coupled with the increasing desire of parents to be involved in their sons' and daughters' education, presents us with some challenges around dissemination of information," says Whiteside. She adds that the University has been obtaining legal advice on what it can and cannot release. "Our position will be that these students are being admitted to university and will be asked to undertake their studies and to make life decisions on their own as adults. Our records policy will continue to protect the confidentiality of the student. But we are preparing guidelines to be followed in the event this position is challenged."

- The programming of social events that don't involve alcohol, in order to accommodate students under 19. This issue is being discussed in residences and also as part of the student space planning that is now under way on campus.

- Changes in curriculum. The University's associate vice-president (academic) and representatives of the Upper Grand District School Board are meeting to discuss what the changes are and what impact they may have on the University's curriculum, as well as expectations around grading and feedback. "Academic support programs such as supported learning groups and learning and writing support are being reviewed in preparation for a possible increase

in demand for these services," says Whiteside.

- The use of learning resources and technology. Students increasingly use the Internet for service provision, she says. The committee is reviewing ways the University can use the Internet more effectively to provide service, as well as identify services that will have to be provided individually.

- Service 24 hours a day, seven days a week. What are the student and parent expectations? "This generation is more likely to want information and services immediately," says Whiteside. "We're trying to determine how best to provide some of these services in a 24/7 format. The use of student portals will be highly effective in providing information to students. The Web Advisory Committee is currently reviewing this exciting opportunity."

Whiteside's committee has identified a number of issues and referred them to the appropriate units for action. The process is ongoing, and new items are brought forward as identified.

"Each year, as the cohort proceeds through the new curriculum, we get a better sense of what the issues might be," she says. "Although these changes present a challenge for us, they are not insurmountable. We have colleagues in other provinces who have identified some of the issues for us, and a number of the generic issues are being examined jointly by colleagues in Ontario."

IN MEMORIAM

HARVEY CALDWELL

Harvey Caldwell, a faculty member in the Department of Rural Extension Studies from 1952 to 1982, died Nov. 14 in Guelph. A 1951 graduate of OAC, Prof. Caldwell received an M.Sc.Ed. from Cornell University and a PhD from the University of Oregon. He was director of OAC's diploma in agriculture program from 1959 to 1969 and chair of the then Department of Extension Education from 1961 to 1971. Predeceased by his wife, Mary, he is survived by his children, Forrest and Mary-Margaret, and two grandsons. A tree will be planted in his memory next September in the Wall Custance Memorial Forest.

DONALD MASTERS

University professor emeritus Donald Masters, a faculty member in the Department of History from 1966 to 1974, died Nov. 14 in Guelph at the age of 93. An MA graduate of the University of Toronto and PhD graduate of Oxford University, he taught at Queen's University, United College in Winnipeg and Bishop's University before joining U of G. Renowned for his work on the economic, social and religious history of Canada, he was named a Fellow of the Royal Society of Canada in 1953. Prof. Masters is survived by his wife, Marjorie; his children, Margaret, Jane, Mary Ann, Lois and Charlie; and nine grandchildren.

RICHARD PROTZ

University professor emeritus Richard Protz, a faculty member in the Department of Land Resource Science from 1966 to 1999, died Nov. 17 at the age of 67. A BSA and MSA graduate of the University of Saskatchewan and PhD graduate of Iowa State University, he focused his research and teaching in the areas of soil genesis, classification and tropical land and water use. He also helped create the Image Analysis Remote Sensing and GIS Laboratory to collect and analyse digital data on land and soils. Prof. Protz is survived by his wife, Olga; eight children: Maria, Teresa, Diana, Michael, Stephen, Katherine and Alexandra; and two grandchildren.

@GUELPH

Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
l.graham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Director Chuck Cunningham
c.cunningham@exec.uoguelph.ca

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**UNIVERSITY
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CANDIDATES FOR ASSOCIATE VP TO GIVE PUBLIC TALKS

Two candidates have been selected as finalists for the position of associate vice-president (research) and will give public presentations in December. Philip Hicks, Canada's science and technology representative in Japan, currently serves at the Embassy of Canada's Investment, Technology and Science Section in Tokyo. Mark Whitmore, a

professor in the Department of Physics and Physical Oceanography at Memorial University, is recognized for his work on soft condensed matter physics. The public presentations will be held Dec. 7 at 9:10 a.m. for Hicks and Dec. 17 at 11:10 a.m. for Whitmore, both in Room 113 of the MacNaughton Building. Written comments on the candidates are invited and should be submitted to search committee chair Prof. Alan Wildeman, vice-president (research).

FLU VACCINE CLINIC SET

The Wellington-Dufferin-Guelph Health Unit will hold a public flu vaccine clinic Dec. 6 from 5 to 9 p.m. in Student Health Services in the Powell Building. The only people who should not be vaccinated are those who are allergic to eggs, those already suffering from the flu, people with Guillain-Barre Syndrome and children under six months of age.

DISTANCE ED CALENDAR WINS INTERNATIONAL AWARD

The Learning Resources Network (LERN), a leading international association for lifelong learning, recently recognized U of G's open learning calendar with an award for best catalogue. Guelph's entry was selected from a field of 50 international nominations. The award was based on the following criteria: originality, innovation, appropriateness as a model for other programs, replicability and measurable outcomes. The award will be presented at LERN's annual conference Nov. 29 in San Francisco.

SCADDING TO SERVE AS ACTING TSS DIRECTOR

Prof. Steve Scadding, Zoology, will become acting director of Teaching Support Services Jan. 1 for one year while Prof. Julia Christensen Hughes is on a research study leave.

ALEXANDER MEDAL HONOURS CONTRIBUTIONS TO U OF G

The University is calling for nominees for its annual Lincoln Alexander Medal of Distinguished Service. The award honours an individual who has played a pivotal role in the functioning of U of G and has influenced the quality of academic life on campus. Current faculty, staff and students are not eligible. Nominations can be made by any member of the University community and must be submitted to the Senate Office by Dec. 31. For nomination information, call Mollie McDuffe-Wright at Ext. 6760.

U of G Part of New Climate Change Research Network

Researchers to look at adaptation options for agricultural sector



Keeping an eye on the climate, with protective sunglasses firmly in place, are, from left, graduate student Elle Klupfel and Profs. Ellen Wall and Barry Smit.

PHOTO BY MARTIN SCHWALBE

WINTER PARKAS are only just beginning to emerge from storage closets across southern Ontario because we've enjoyed a welcome relief from last year's early — and bitterly long — winter. But this variation in temperature is par for the course, say U of G researchers who have just been granted major support to host a node of a new national climate change research network.

Profs. Ellen Wall, Environmental Sciences, and Barry Smit, Geography, are collaborating with other Guelph researchers to oversee the creation of the agricultural node of the Canadian Climate Impacts and Adaptation Research Network (C-CIARN). The network is charged with promoting information exchange and facilitating research on climate change adaptation in Canada. The initiative includes six regional research nodes and seven sectoral nodes across Canada. After an intense competition with other Canadian institutions, U of G was selected to host the agricultural node office, which Wall co-ordinates.

Sbe and Smit say Canada's agri-food sector is vulnerable to risks associated with variations in climate change. Programs, management strategies and technological innovations are needed to respond and adapt to these issues, they say.

"U of G's C-CIARN node will look at the issue of climate change as it relates to agriculture and encourages adaptation research so that we're not so vulnerable," Wall says.

A call for proposals to establish the C-CIARN node offices was sent out to various research institutions in the spring. The competition was part of an effort by the Canadian government to encourage activities that will help this country meet its climate change commitments under the United Nations Climate Change

Convention. This includes finding ways to increase knowledge of climate change effects and identifying appropriate adaptation measures.

U of G's strength in agricultural research and expertise on climate change made it a leading contender, and a workshop delivered in March 2001 solidified its chances. The workshop brought together a wide cross-section of expertise in agriculture and climate change, something Smit and Wall see as an exceptional strength.

The goal of C-CIARN is to co-

"The network will help develop and provide Canadians with credible information about their country's vulnerabilities to climate change, the effects of future climate change and variability, and adaptation options"

ordinate research and knowledge about climate change and adaptation measures among Canadian researchers, government and stakeholders. Ultimately, the network will help develop and provide Canadians with credible information about their country's vulnerabilities to climate change, the effects of future climate change and variability, and adaptation options.

To accomplish this at Guelph, a searchable database for bibliographic material and reports on both current and completed research projects is being established. Rural studies PhD student Ellen Klupfel is developing the database and Web site. In addition, a list of all agencies

and organizations in Canada that might be interested in C-CIARN-Agriculture is being compiled. The new Web site will highlight news and coming events and will provide a forum for discussion among those interested in key questions surrounding agricultural adaptation to climate change.

Smit, who chairs the steering committee, says one of the major challenges is trying to get producer organizations and the public to see climate change as an immediate issue as well as a long-term problem and to connect climate change issues with the challenges of agriculture.

"Climate change is often thought of as only global warming, referring to long-term changes in average temperature" says Smit. "But climate change is also the frequency and severity of droughts, and these have immediate and serious consequences for producers, the agri-food sector and safety net programs. Although the gradual changes in climate may be difficult to identify, sharing information on adaptation strategies to deal with drought makes a lot of sense."

Wall expects to have the Web site and database available by March 2002. The project will run for five years, with a review slated for the three-year mark.

The steering committee for the Guelph C-CIARN agriculture office also includes Profs. Terry Gillespie, Land Resource Science; Michael Moss, Environmental Sciences; Alfons Weersink, Agricultural Economics and Business; Tony Hunt, Plant Agriculture; and Oswald Zachariah of the Ontario Ministry of Agriculture, Food and Rural Affairs.

This project is funded through Natural Resources Canada.

BY MARIANNE CLARK
SPARK PROGRAM

PEOPLE

MINISTER NAMED CANON

Rev. Lucy Reid, U of G's campus ecumenical minister since 1991, was one of five new canons named by the Anglican diocese of Niagara this month. This is an honorary position, dating back to the days when the dean and chapter of canons of a cathedral used to order the affairs of the cathedral. Today, the appointment is made to recognize the ministry of a priest in the diocese. Reid's honour recognizes the non-traditional ministry she maintains at a university campus. She will be installed Dec. 6 in Hamilton.

CBIE LAUDS LONG SERVICE

At its annual meeting in Banff this month, the Canadian Bureau for International Education presented its Distinguished Service Award to Prof. Jim Shute, director of the Centre for International Programs (CIP), for his longtime service to international education in Canada. Shute also participated in a conference panel discussion on "Trends and Outlooks in International Education." Also attending the conference from CIP were study-abroad manager Lynne Mitchell, education-abroad adviser Rebecca Stranberg and international student adviser Benny Quay.

EMPLOYEES RECOGNIZED

U of G employees who have completed 25 years of service were honoured at a recognition luncheon Nov. 19. They are: Robert Atkinson, Richard Barham, Dorothy Billings, David Bruce, George Bubenik, Dina Carter, Keith Cassidy, Nelson Cole, Susan Craig, Robin Davidson-Arnott, Ken Fisher, Terry Graham, William Harris, Barbara Jefferson, Carol Ann Jones, Janet Kaufman, Karen Korabik, Reid Kreutzweiser, Debbie Kron, Karen Lee, Norman Lindsay, George Loney, Alex Magyary, Susan Mannhardt, Wayne Marsh, Rosemarie McHugh, Sandra McIntyre, Pearl Milne, Carl Mohan, Donna Motayne, Michael Moss, Bill Nickling, Gary Partlow, Kent Percival, Brian Pettigrew, Peter Physick-Sheard, John Prescott, Dominico Ranalli, Donna Sartori, Kenda Semple, Evelyn Shields, Radhey Singh, Barry Smit, Angelo Sponga, Brian Steed, Ken Stout, Gord Surgeoner, Linda Trouten-Radford, Cathy Tutton, Alan Watson, Linda Wood and Julie Yager.

MICROBIOLOGISTS HONOURED

Prof. Terry Beveridge, Microbiology, received the Culling Medal for his work on the Gram stain at the American National Society of Histotechnology Conference in September. Microbiology PhD student Linda McKerral is the 2001 recipient of the Pharmacology Microbiology Graduate Award and won a graduate student award from the Canadian Society of Microbiologists.

POSTER WINS KUDOS

Sonya Bells, a fourth-year biophysics co-op student, won the prize for best poster at the Canadian Undergraduate Physics Conference held this month in Winnipeg.

CFI Recipients Honoured

Continued from page 1



All U of G faculty who have received awards from the Canada Foundation for Innovation's New Opportunities Fund were honoured at the Nov. 15 announcement event. In front, from left, are Profs. Julang Li, Animal and Poultry Science; Krassimir Yankulov, Molecular Biology and Genetics; John Lauzon, Land Resource Science; France-Isabelle Auzanneau, Chemistry and Biochemistry; and Jeff Caswell, Pathobiology. At back are Profs. Jinzhong Fu, Zoology; Jon Warland, Land Resource Science; Stephen Seah, Microbiology; vice-president (research) Alan Wildeman; CFI senior vice-president Carmen Charette; Guelph-Wellington MP Brenda Chamberlain; president Mordechai Rozanski; and Profs. Marcel Schlaf, Chemistry and Biochemistry; Richard Heck, Land Resource Science; and Stephen Miller, Animal and Poultry Science. Absent are Profs. Barbara Mable, Botany; Carolyn Kerr, Clinical Studies; Medhat Moussa, Engineering; Dorothee Bienziele, Pathobiology; and William Deen, Plant Agriculture.

PHOTO BY MARTIN SCHWALBE

research through its various programs. Through matching funds, that amount has increased almost three-fold to more than \$61 million.

Charette said the CFI considers the funding a "strategic investment in the ability of our universities to attract and retain the best researchers in Canada. These researchers will have access to the equipment and facilities they need to undertake leading-edge research and to train young Canadians for the knowledge-based economy."

Of the national \$17.6-million investment, \$13.8 million is coming from the New Opportunities Fund and \$3.8 million is from the Infrastructure Operating Fund, a new program that helps universities with operating and maintenance costs associated with new infrastructure projects supported by the CFI.

Chamberlain, who was attending the Nov. 15 announcement on behalf of Industry Minister Brian Tobin, added that the federal government considers the funding "the kind of help we need to keep our best

and brightest here at home. By investing in the activities of organizations such as the CFI, the government of Canada is fully engaged in making Canada one of the most innovative countries in the world by 2010."

Prof. Alan Wildeman, vice-president (research), who served as master of ceremonies for the announcement event, noted that the CFI has indeed "had a major impact on our ability to attract and retain faculty."

The three newly funded Guelph projects are all headed by faculty who have joined the University in the last two years. Kerr, who arrived in 1999, received \$204,206 to do innovative and competitive research in the pathophysiology of lung diseases in horses and cattle. She will create a state-of-the-art veterinary respiratory facility in OVC, focusing on the mechanisms of lung dysfunction in horses and cattle, using novel imaging and cellular research techniques.

Seah, who joined U of G in 2000, received \$175,468 to develop effective

strategies to fight chlorinated pollutants in Ontario. He will study the remediation of aromatic pollutants, waste management and the control of microbial diseases to develop strategies to reduce bioremediate polychlorinated biphenyls (PCBs), one of the most abundant and widespread chlorinated pollutants in Ontario.

Fu, who also arrived at Guelph in 2000, was awarded \$173,693 to study the loss of biodiversity from a historical and molecular perspective. He hopes to understand how biodiversity was generated and how to scientifically assess it.

BY LORI BONA HUNT

Staff Association Joins United Steelworkers

Merger follows months of work by UGSA

THE U OF G STAFF Association — an independent union since 1974 — has voted overwhelmingly in support of joining the United Steelworkers of America.

Almost 95 per cent of the nearly 500 staff members taking part in the Nov. 22 vote approved the merger. The staff association, which has about 800 members, represents clerical, secretarial and technical employees on the main U of G campus.

UGSA president Marg Carter says she's very pleased with and excited about the vote's results. "It was a strong show of support from our membership," she says, adding that she hopes the vote will actually strengthen the unit's relationship with the University administration because staff will now feel more empowered.

Brendan Soye, U of G's manager of employee relations, says the University has had a long and positive relationship with the Staff Association and he expects this positive re-

lationship to continue with the Steelworkers.

"I have already been introduced to the Steelworkers' business agent and look forward to working with him and other members of the executive," he says.

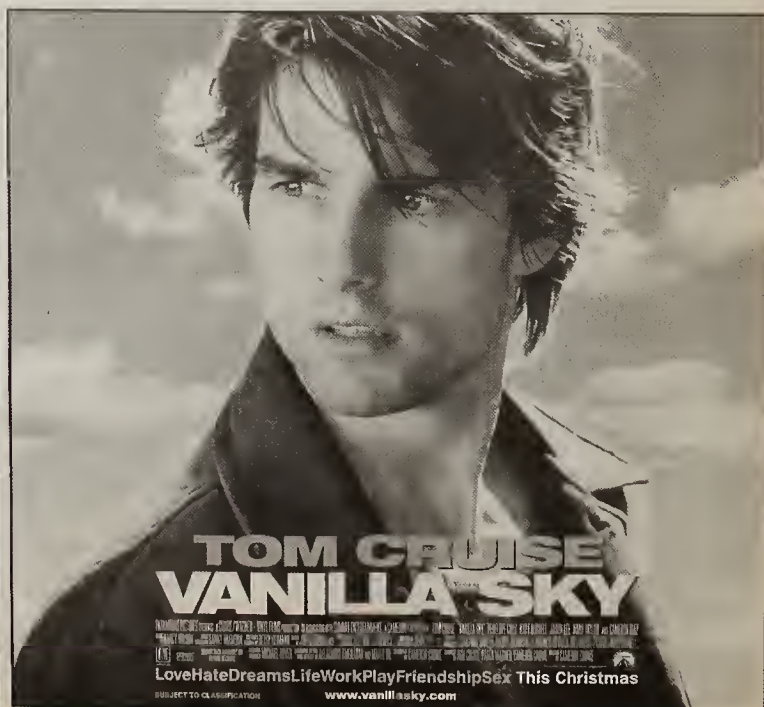
Kim Taylor, UGSA's recording secretary and chair of the committee that worked on the merger, said staff members chose to join the Steelworkers partly because of that union's "immense resources," including research, legal and pension expertise. Another factor for choosing the Steelworkers was the union's history and association with the University of Toronto. Close to 5,000 clerical, technical and some professional staff at Toronto joined the Steelworkers in 1998.

The Guelph merger follows months of work by the Staff Association. Taylor says efforts began last June when the association contacted four major unions to see what they could offer UGSA members.

BY SUZANNE SOTO

@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline
Dec. 12	Dec. 4
Jan. 16	Jan. 8
Jan. 30	Jan. 22
Feb. 13	Feb. 5
Feb. 27	Feb. 19
March 13	March 5



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Book Explores Relationship of Biblical Religion, Family

Philosopher analysed hundreds of key Biblical texts that refer to the family

IT TAKES GUTS to take issue with "family values." But Prof. Jay Newman, Philosophy, has risen to the challenge with a new book that looks at the relationship between Biblical religion and the family as institutions.

"Many religious people talk about 'family values' and how we have to go back to what the Bible says," Newman says. "When I go back to the Bible, I find its relation to the family is complicated and often a source of conflict."

Newman has long been interested in problems of religious hatred, conflict, intolerance and prejudice, as well as the idea that religion is inherently competitive.

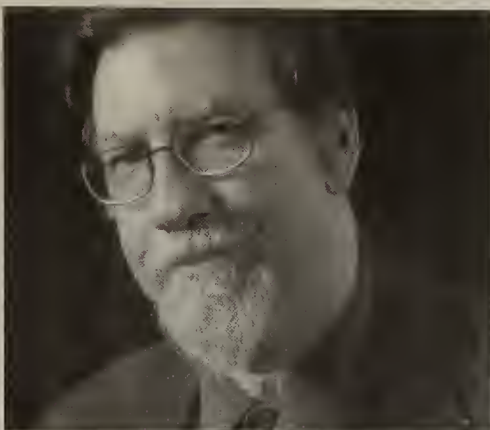
The concept for his most recent book, *Biblical Religion and Family Values: A Problem in the Philosophy of Culture*, arose from his research for an earlier book about religion versus television.

"I was struck by the family values rhetoric . . . by the correlation between the decline of family values and family life and the decline of religion in North America."

He believed a detailed study of the subject was warranted because, despite the volume of debate in the media over family values and religion, the deeper philosophical issues underpinning it have received "sparse attention."

So Newman turned to the Bible and to the writings of Jewish and Christian thinkers on the matter. He analysed hundreds of key Biblical texts that refer to the family. He explored the "cultures" of religion and family from a primarily philosophical standpoint, although his work is also informed by theology, sociology, anthropology, social history and Biblical studies scholarship.

"After surveying the vast canon of Biblical texts on the subject of the family, I was able to conclude that the relationship between Biblical religion — Judaism and Christianity — and the family was exceedingly complex. But they are not natural allies."



Prof. Jay Newman

PHOTO BY MARTIN SCHWALBE

Instead, religion and the family are, to some extent, competitors. "They vie for influence on a child's upbringing," Newman says. "There are areas of tension."

The tension is clear in the Book of Genesis, which repeatedly focuses on conflict between commitment to God and to one's own family unit.

"It was hard for the family to succeed," says Newman. Adam was pitted against Eve, Cain against Abel and Noah against Ham.

Genesis is a series of stories describing "the frailty of the family institution — the concern that the family unit will siphon off the enthusiasm that people have for religion, for larger social units, for God. There is rivalry between the family and God."

In the New Testament, Newman says, Jesus and St. Paul "devalue the conjugal family in crucial ways. They express certain disdain for the kind of family life people on the religious right have defined."

Early Christians believed that people who pursued family life were parting from an authentic commitment to Jesus and God, he says.

In Matthew 10:37, for example, Jesus says: "He that loveth father or

mother more than me is not worthy of me: and he that loveth son or daughter more than me is not worthy of me."

Newman concludes that "the divided loyalties that arise between commitment to religion and to family help prevent individuals from becoming overly devoted to one or the other. Parents and religious leaders share influence over the individual. They sometimes work together. Individuality is made possible by these divided loyalties."

But conflict between Biblical religion and the family are "obscured by most of the people who nowadays use family values as a way of promoting their agenda," he says. "What seems to many people to be simple is really amazingly complex."

Newman has been a faculty member at Guelph for 30 years. He is a Fellow of the Royal Society of Canada and past president of the Canadian Theological Society.

Biblical Religion and Family Values: A Problem in the Philosophy of Culture, which is dedicated to his late mother, Kitty Newman, is his 10th book.

BY STACEY CURRY GUNN

Thompson Play Will Be Reborn as Feature Film

Perfect Pie to debut next year on film festival circuit

TWO YEARS AFTER COMING to life on the stage, Prof. Judith Thompson's play *Perfect Pie* is in gestation for its rebirth on the screen.

Toronto-based production company Rhombus Media commissioned Thompson to write the screenplay for the full-length feature film, set to debut next year on the film festival circuit, probably either at Toronto or Cannes. Rhombus is known for acclaimed films such as *The Red Violin* and *Thirty-two Short Films About Glenn Gould* and the television series *Yo-Yo Ma: Inspired by Bach*.

The \$3-million movie of *Perfect Pie*, directed by Barbara Willis Sweete and starring Barbara Williams and Wendy Crewson, was filmed at a location north of Georgetown this fall.

"It's crazy to walk into the production office and see 200 people working on my play," says Thompson, a drama professor in the School of Literatures and Performance Studies in English since 1992. "The same kind of thing happens with theatre, but on a much smaller scale."

And writing a screenplay is completely different from writing for the theatre, she notes.

In the filmmaking hierarchy, a writer asserting herself is "the equivalent of the drywall saying: 'I'm the architect,'" she says wryly. "In the theatre, I am the architect and the only one."

Thompson says she much prefers writing for the stage. "You have to answer to too many people when writing for film. They tell you what makes sense, what doesn't, what they think the characters would say or do. But they don't know much about characters."

A two-time Governor General's Literary Award winner, Thompson says she's grateful for her faculty position at Guelph because it allows her

to pursue work she thinks is important and to stick to her principles without bowing to financial pressures.

"Being employed here has given me the strength to have conviction about the work and not care if I'm thrown off a project. It gives me the strength financially and psychologically to say: 'No, this is my play and you're not going to exploit it.' I don't have to accept a lot of stupid screen-writing projects instead of what's important to me."

Perfect Pie is Thompson's sixth play. It's a story about the reunion of two long-estranged women, Francesca and Patsy, who shared a deep friendship and deep wounding in their youth. It's also about how people grow and change when they choose to stay close to their roots or leave to experience the wider world.

"It's a story that women — especially middle-aged women — can connect with, whether they've walked a distance from the past or stayed," says Thompson. "It's when you meet with a person you've grown up with and bonded with in a sense, yet you are completely different people. Francesca comes back, and they travel back together to their suicide bid on the train tracks."

The play, which premiered at the Tarragon Theatre in Toronto in early 2000, germinated from a story Thompson heard about two 14-year-olds who committed suicide. They were holding hands when struck by a train.

Perfect Pie is not her first foray into writing for film. Her first feature film screenplay was *Lost and Delirious*, a movie loosely based on the Susan Swan novel *The Wives of Bath*. *Lost and Delirious* has now been sold to almost every country in the world.

On the theatre front, Thompson's latest play, *Habitat*, premiered in Toronto's 800-seat St. Lawrence Centre this fall. The story of a wealthy neighbourhood's efforts to stop a group home from opening in its midst had a "successful run." She is now preparing *Habitat* for publication.

And, not surprisingly, Thompson is thinking about a new play. It's too early to talk about the concept, she says, but it's connected to music. "It's like a pregnancy," she says of the creative process. "It needs to be nurtured."

Campus Safety Measures Under Way

Speed bumps, reduced speed limit planned for South and East Ring roads

SEVERAL INITIATIVES to reduce the speed of traffic on campus and to enhance pedestrian safety will be completed by the end of the fall semester, says Chris Pickard, director of planning, engineering and construction.

The initiatives include traffic-calming measures on South and East Ring roads. Nine speed bumps are being installed this week, and the speed limit is being reduced to 40 kilometres an hour. University Police will enforce the posted maximum and are authorized to hand out tickets payable to the province.

Pickard says the locations of the

speed bumps were selected through consultation with his department and University Police and were reviewed with City Transit, the Guelph Fire Department and the campus master plan transportation consultant. Planning, Construction and Engineering will also be reviewing with University Police whether similar initiatives are needed on McGilvray Street, he says.

Two of the speed bumps will be installed on either side of the new South Ring Road crosswalk that went into operation last week. Located at Parking Lot 31, the crosswalk has traffic lights, the design that

is now the norm in the City of Guelph.

Pickard says both the city and the University have been concerned about the risk for pedestrians crossing on College Avenue at the crest of the hill by Creelman Hall, where drivers may not see them. To deter pedestrians from crossing there, the University is installing a decorative wrought-iron fence on the south side of College Avenue east of the crosswalk.

Nearing completion are sidewalks on the east side of East Ring Road from P17 and on Arboretum Road from the Child-Care and

Learning Centre to East Ring.

This will provide safer access from the centre, residences and the parking lots to the crosswalk at East Ring and Arboretum roads, says Pickard. Speed bumps will be installed on either side of the crosswalk.

He adds that the University is continuing to pursue with the city options for improving pedestrian safety on Gordon Street. Because a review of pedestrian crossing patterns determined they are not concentrated in any one location, an additional crosswalk does not appear to be a realistic solution, he says.

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THE POLITICS OF CANCER

*"Of all the chemicals that are produced, relatively few
have been tested to determine their influence on health"*

BY JUDITH MCKENZIE

Editor's note: The following is an excerpt from the book *Environmental Politics in Canada: Managing the Commons Into the 21st Century* by Prof. Judith McKenzie, Political Science. The book was published this fall by Oxford University Press.

IN 1880, an American neurologist, George M. Beard, observed symptoms of "neurasthenia" or "American nervousness" in his patients. The symptoms included fatigue, short-term memory loss and sore joints and muscles. The cause of this condition, Beard argued, was technological progress itself, namely steam power, the printing press and factories. This early identification of environmental factors as causal agents of health problems was all but forgotten when miasmatic theory was abandoned in favour of germ theory. By the 1970s, scientists turned their attention to the gene theory of disease, which has emerged as the dominant theory in all fields of medicine, including environmental medicine.

The subfield of environmental health is a growing area of public health. Environmental-health problems include not only the direct effects of pollutants that are inhaled, swallowed or absorbed through the skin, but also the indirect effects of toxic agents that damage stable ecosystems and pose further risks to the health of humans and wildlife.

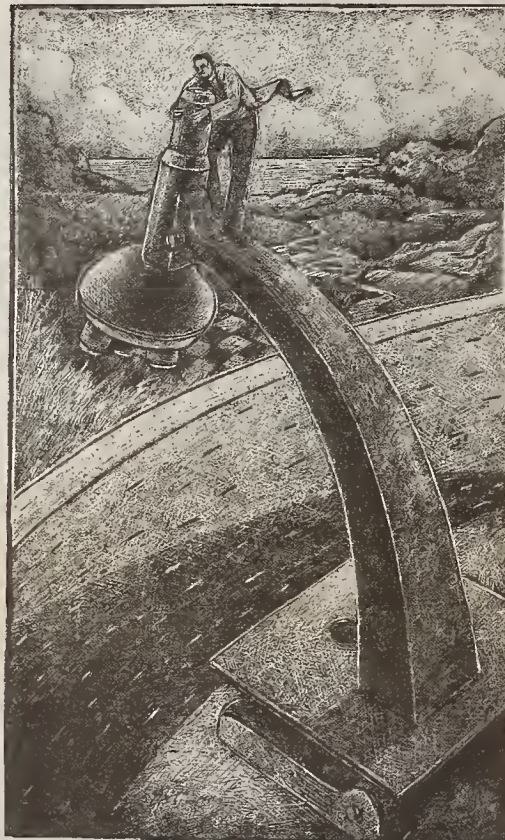
Sandra Steingraber, a survivor of cancer and an ecologist, spells out the situation regarding scientific proof of the environment-cancer link as follows:

"There is no one study that constitutes what we in the scientific community would call absolute proof of a connection between cancer and the environment. Instead, what exists are many well-designed, carefully constructed studies that all together tell a consistent story. So I begin to see that each of these studies is like a little piece of a jigsaw puzzle. By themselves, they are provocative, but they really only make sense if you bring all the pieces together and look at how they form a kind of startling picture. And I think it's a picture that we ignore at our peril."

One of the methodological difficulties in drawing linkages between environmental contaminants and illness is that there are gaps in knowledge. For example, of all the chemicals that are produced, relatively few have been tested to determine their influence on health. Moreover, except in the case of lead, mercury and PCBs, little is known about how chemicals affect the health of children. Furthermore, the findings of animal studies may not be directly applicable to humans. In other words, there are gaps in our knowledge about the effects of contaminants on health. Nevertheless, there are considerable data that do point to serious health implications of environmental contaminants.

Although many other diseases are declining, cancer rates rose steadily throughout the century. The American Cancer Society has predicted that this disease will become the world's leading cause of death sometime in the 21st century. A study, *Everyday Carcinogens: Stopping Cancer Before It Starts*, which was released as part of a workshop on cancer prevention at McMaster University in March 1999, concluded that cancer rates in Ontario among women rose dramatically between 1966 and 1996. These increases are particularly apparent in breast cancer (29-per-cent increase), non-Hodgkins lymphoma (106-per-cent increase), lung cancer (349-per-cent increase) and melanoma (116-per-cent increase). For men, increases have been observed in rates of prostate cancer (102 per cent), melanoma (273 per cent), non-Hodgkins lymphoma (115 per cent) and testicular cancer (115 per cent). For both men and women, rates of thyroid cancer have also increased by 113 per cent and 146 per cent, respectively.

The general strategy adopted by western industrialized countries in waging the war on cancer has been to put increasingly large research and financial resources into gene research and the development of new drugs. As Robert Proctor says, the



causes of cancer have been known for years, and they include "bad habits, bad working conditions, bad government and bad luck, the latter including such things as the luck of the genetic draw and the culture into which one is born."

The Canadian Cancer Society continues to attribute 60 to 70 per cent of cancers to "lifestyle choices." This "lifestyle" factor for increased rates in cancer has recently come under fire by a number of researchers and ecologists who argue that it is not

*"Animals are in some ways better to study
when raising questions about cancer
in the environment than humans
because wild animals don't drink,
smoke or hold stressful jobs"*

the only explanation. As evidence, they point to some increased rates for cancer among children and wildlife. The Canadian Institute of Child Health has reported that there has been a 25-per-cent increase in the last 25 years in cancer incidence among children 15 years of age and younger. In particular, this increase in prevalence has been observed in certain childhood cancers, including brain cancers, acute lymphoblastic leukemia, Wilms' tumour and testicular cancer. There is a parallel epidemic of cancer in wild animals.

Steingraber observes: "Animals are in some ways better to study when raising questions about cancer in the environment than humans because wild animals don't drink, smoke or hold stressful jobs. They don't have bad diets. So you can't blame

lifestyle factors on the ascendant rise of cancer among fish."

While ecologists are in no way suggesting that lifestyle factors are not important — particularly in light of the irrefutable evidence that smoking and certain kinds of diet do pose significant risks — they do believe that the link between the environment and cancer warrants further study. In quantifying the connection between cancer and exposure to contaminants, Dr. Samuel Epstein concludes that "three-quarters of the rise in U.S. cancer rates can be attributed to exposure to carcinogens in the environment, workplaces, food, cosmetics and consumer products."

In her acclaimed study of the cancer-environmental connection titled *Living Downstream*, Steingraber agrees that this current lifestyle approach to cancer research and emphasis on genetic research should not be the only avenues pursued: "Collectively, fewer than 10 per cent of all malignancies are thought to involve inherited mutations." Moreover, inheritance is "the one piece of the puzzle we can do absolutely nothing about."

The redirection of some of the limited funds for cancer research from strategies that consider cancer a problem of *behaviour* to one that also sees it as a problem of *exposure* would be a positive first step in identifying disease-causing agents. Steingraber claims that the orthodoxy of lifestyle defines the public-education literature on breast cancer. Warnings about exercise, low-fat diets, breast self-examinations, family history, timing of childbirth and mammograms are common themes in this literature. Both mammography and breast self-examination, for example, are tools that have been developed to detect cancer in its early stages. However, as Steingraber notes, "Detecting cancer, no matter how early, negates the possibility of preventing cancer. At best, early detecting may make cancer less fatal, allowing us, as the epidemiologist Robert Millikan puts it: 'to live in a toxic soup without breasts or prostates, et cetera.'"

In 1962, the biologist Rachel Carson was one of the first scientists to sound the alarm about the health risks of massive spraying regimens of pesticides. In her book *Silent Spring*, she called on the public to demand from their legislators an explanation about the frightening menace they were being asked, without their consent, to endure. She argued that humankind has an *obligation to endure*, and that part of our job is to ensure that we pass on a safe and healthy environment to succeeding generations. This obligation required humankind to investigate other forms of environmental management, including biological ones. She asserted that it was our right not only to know about the poisons that were being released into the environment, but also to be protected from this contamination.

One of life's ironies is that Rachel Carson, who had no family history of breast cancer, was never a smoker or drinker and exercised and walked regularly, died of breast cancer in 1965 at the age of 56.

Steingraber states that it is necessary to discover our ecological roots and ask questions about the physical environment in which we have grown up — the sources of our drinking water (past and present), wind patterns and the agricultural system that provides our food (present and past). Rather than supporting after-the-fact regimens, this approach argues that the release and disposal of known and suspected carcinogens must be stopped.

Therefore, the debate about the environmental-cancer health nexus is dominated by two very different approaches — the lifestyles strategy and the human-rights strategy. There is no question that anti-smoking campaigns and publicity about healthy diets have tremendous value in educating the public about the known causes for cancer. However, there is a growing scientific literature that points to considerable value in a two-pronged strategy in the war against cancer.

CARING FOR PETS AND PEOPLE

Vet enjoys working with both animal patients and their two-footed owners

BY ANDREW VOWLES

SO WHAT DOES VETERINARIAN Diane Smith think about the B.C. woman who recently attracted media attention with her family pet, a Burmese python? Smith chooses her words carefully. "I'm somewhat troubled by situations like that. I'm not sure the animal can be given the appropriate care and housing that it needs — and also animals such as that do pose a threat."

Point out to her that her initial thought was for the welfare of the animal rather than that of the people involved and she pauses before explaining: "People count first, but I guess my thought in these situations is the animal first." Spoken like a true veterinarian.

Having sold her thriving small-animal practice in Elmira three years ago, Smith has found herself back at her U of G alma mater more often for occasional teaching at the Ontario Veterinary College and administrative duties as a member of the planning group that ushered in OVC's new curriculum last year. She still works part time at her former clinic — the North Waterloo Veterinary Hospital — but has also found a new outlet with her weekly volunteer work at a Kitchener centre for people with disabilities.

She says her two decades in private practice never brought anything quite as large or exotic as a python — cats and dogs were more her style. Still, she says, the enjoyment in her work often lies as much with the two-footed owners as with the animal patients. "My fondest part of private practice is interacting with the clients."

It can also be the toughest part of the job. "The cases I have found most difficult are those where a client expected a different outcome or expected more." Particularly with an aging animal, the patient may be "the last friend that an older gentleman or woman may have, and you unfortunately can't make the pet live forever or make the situation better than it is."

When Smith was growing up in Toronto, nothing pointed towards a career in veterinary medicine. Her family didn't even own a dog until she was in her teens. Still, she recalls something tugging at her as far back as early childhood.

"When I was really little, I hated going to the circus," she says, recalling class trips in Toronto. "I would dread having to see all those animals in small cages."

Having read a magazine article about farm vacations, she spent a summer working on a sheep farm in Paisley. "With that early taste of farm life, I was really taken by it." Back at home, a student position at a small-animal clinic proved to be the clincher.

Not quite ready to sever her city-mouse ties, Smith com-



pleted an undergraduate degree at the University of Toronto before enrolling at OVC. After graduating in 1978, she became an associate at the mixed animal practice in Elmira where she had spent a summer as a student. Three years later, she bought the small-animal side of the practice from owner and Guelph graduate John Hummel.

Particularly during the early years, Smith was busy building the practice and juggling family life with her husband, Paul Shutsa, and their two sons, Christopher, 19, and Andrew, 16. For her, success meant eventually being able to hire an associate. Three years ago, looking to pursue other interests, she sold her practice to yet another Guelph grad, Linda Hirzer.

Although retirement from full-time practice initially brought some culture shock, she says she's happy with her new routine. "It feels very much like home with a lot less stress."

Working with OVC faculty and administrators, Smith was the lone private practitioner contributing to the planning group that introduced the scheduling for the DVM 2000 curriculum, now in its second year.

As an occasional instructor at the college, she is now involved in a module on ethics and professional values. For another module on communication skills developed by Prof. Cindy Adams, Population Medicine, Smith helps students work through client simulation exercises. With trained actors playing the role of clients, these sessions give students practice in client relations and in dealing with such sensitive issues as euthanasia or conflict between family members over an animal's treatment.

That emphasis on client relations in veterinary medicine echoes the kinds of curriculum and professional changes taking place throughout much of human medicine as well. Says Smith, whose husband is a dentist: "One of the main reasons the DVM 2000 program came about was because many medical schools and other professional schools looked at their curricula and saw those curricula not meeting needs for current graduates."

She's seen the importance of the client relationship from another perspective, as a member of the complaints committee for the College of Veterinarians of Ontario, the profession's regulatory body in this province. "One pivotal point for many complaints that come through rests on lack of communication."

These days, Thursday mornings find Smith at the Sunbeam Residential Development Centre in Kitchener, where people with mental and physical disabilities live or come to visit for programs.

She works with two young clients, often reading them children's stories, going for walks or taking them for outings such as a recent trip to a musical production of *Oliver*.

"I get as much as I give," she says of her volunteer work. "It tends to make me prioritize, set my priorities straight. Sometimes we get carried away in our lives with things that don't really matter. At Sunbeam, I get a sense of what's important. I come away appreciating what I have. It probably makes me complain a little bit less. Rather than going through life in a hurried fashion, when you go there and interact, it's a different pace, and I think that's a good thing."

Slowing down also means enjoying more time on the 10-acre woodlot in Elmira that the family shares with a black Labrador named Nyles and a cat named Snow — but no snakes. Or at least if there are, they're harmless.

PHOTO BY MARTIN SCHWABE

Plants May Be Best Monitor of Harmful Emissions

Determining extent and timing of pollutant emissions is economically significant for Ontario's agricultural industry, helpful for the environment

PLANTS COULD GIVE companies that use ethylene in their manufacturing processes a unique way of testing the impact of their practices on the environment.

Prof. Bev Hale and research associate Debbie Chan in the Department of Land Resource Science are developing biological tests that use plants to monitor emissions of ethylene and the effect ethylene has on the surrounding ecosystem.

"Plants are naturally very sensitive to ethylene," says Hale, "so we're trying to use them as indicators of ethylene emissions."

Ethylene is a naturally occurring plant hormone that promotes ripening. It's also used by manufacturers of polyethylene pellets and other products used in the petrochemical industry.

The chemical is used commercially to ripen fruit and vegetables. If released into unmanaged ecosystems, however, ethylene can disturb plant development in ways that are potentially harmful. Current regulations for ethylene are formed on the basis of air-dispersion models, not on plant effects.

Hale and Chan are investigating

three distinct processes that may be useful in the field to monitor ecological effects of ethylene.

The first part of the research involves designing a way to create field control plants. The process involves spray-on ethylene inhibitors (used by the fruit and vegetable industry) applied to the surface of the plants. This will allow the researchers to study plants growing side by side near the manufacturing facility and determine whether the ethylene emitted has affected their growth.

The second phase of the study involves searching for wild plants that

are naturally sensitive to ethylene. In the laboratory, these plants respond to ethylene as well as to ethephon, a chemical ripening agent. Once the ethylene-sensitive plants are identified and monitored, they can be used to determine the extent of ethylene's ecological impact.

Finally, the researchers want to quantify production of the enzyme chitinase in plants, which is induced in response to ethylene exposure. Chitinase fluoresces blue in the presence of ethylene; the challenge is to make a connection between the extent of fluorescence and the level of

ethylene.

"We know ethylene is critical in hastening the ripening of agricultural crops," says Hale. "Determining the extent and timing of pollutant emissions is economically significant for Ontario's agricultural industry and helpful for the environment."

This research is sponsored by the Environment, Science and Technology Alliance of Canada and the Natural Sciences and Engineering Research Council.

BY ELLEN KLUPFEL
SPARK PROGRAM

Universities Collaborate on Online Learning

Project participants across Canada will integrate each other's Internet-based courses

UOF G is one of eight leading Canadian research universities taking part in a new project designed to increase and enhance online learning opportunities for students across the country.

The Collaboration for Online Higher Education and Research (COHERE), to be officially launched in 2002, involves U of G, Dalhousie University, Simon Fraser University, the University of Alberta, the University of Calgary, the University of Saskatchewan, the University of Waterloo and York University.

"The universities have agreed to leverage the shared values of our institutions and faculty to enrich student learning through technology," says Virginia Gray, director of the Office of Open Learning and Guelph's COHERE project coordinator.

"The project is grounded in our vibrant culture of professional collaboration and scholarship in our educational practices. It is distinctive in that it will transfer the culture of research and scholarship, the very hallmark of the university, into the emerging online environment."

The project will allow the participating universities to integrate each other's Internet-based courses into their respective online learning programs through a pre-approved departmental letter of permission. In addition, they will be able to collaborate on the planning and development of new courses and will share standards and evaluation methods for assessing the student online experience.

The universities will make other instructional facilities such as extensive library resources available to

support development and delivery of programs.

"Joint research projects, while allowing each institution to emphasize the collaborative activities most appropriate for its mission and context, will advance knowledge and will prove significant for the future development of online learning and teaching through discipline-centred research," says Gray. "It will develop research and evaluation activities to assess learning and teaching through technology in longitudinal studies that will bridge the academy and the workplace."

A Web site (www.cohere.ca) is being created that marshals all available and relevant online courses and programs from each institution, as well as current research projects (ongoing and completed) in online learning, says Gray.

"This central hub will be invaluable for course selection, as a basis for program counselling and as a growing database of offerings. Faculty will be able to access current research results, integrate course components and/or learning objects into their own courses."

Prof. Maureen Mancuso, associate vice-president (academic) and a member of the COHERE Steering Committee, says the project "will make online learning seamless for Canadian university students. Students from each member institution will have access to each other's courses as if they were offered by our own university."

Mancuso says COHERE grew out of the need for universities to respond to rapid change in Canada's post-secondary education environment. Universities are being asked to

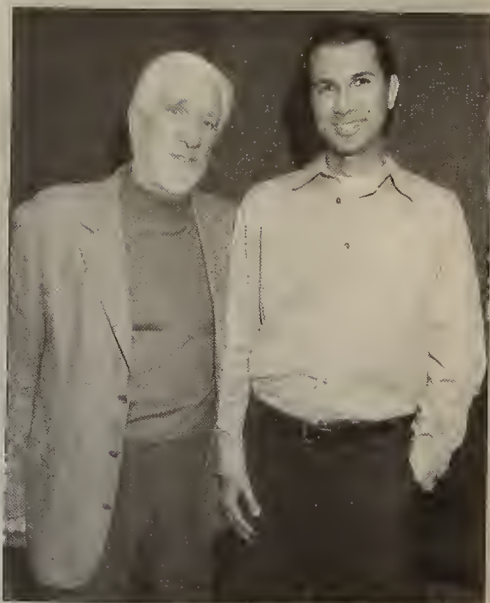
do more with less, "especially in Ontario as we prepare for the enrolment surge expected in the next few years," she says.

All the COHERE members are currently developing and delivering numerous courses and programs online, says Mancuso. "But the universities recognize that by working together, they can maximize programs by sharing expertise and infrastructure rather than duplicating efforts."

Gray adds that COHERE will offer a wide selection of courses and learning experiences to suit learners' needs and styles.

"It will broaden the available online learning opportunities for our students, and will allow our faculty to share their knowledge with faculty from other universities. COHERE represents a new stage in the development of online learning."

The COHERE project is supported by Industry Canada and the traditional research granting agencies.



NIELSEN AWARD PRESENTED

Actor Leslie Nielsen, left, was on campus last semester to present the Leslie Nielsen Dramatic Arts Scholarship to graduate drama student Christopher Grignard. The \$5,000 award is presented annually to an outstanding graduate student in drama, English or fine art whose research is related to performance. Provided by the Olde Hide House of Acton, the award was initiated by Steve Dawkins, a 1981 BA graduate of Guelph who works at the Olde Hide House. PHOTO BY MARTIN SCHWALBE

NASA Sabbatical 'Critical'

Continued from page 1

While Dixon is in Florida, one of his graduate students, Cara Chamberlain, will be doing related experiments at Guelph in the new \$7.9-million Controlled Environment Systems Research Facility (CESRF), which opened in May.

CESRF is the most sophisticated and unique facility of its kind in the world in the field of advanced life

support. It will eventually contain 14 of the plant science world's most sophisticated hypobaric (reduced atmospheric pressure) chambers.

Dixon's sabbatical is "critical" to the development of the CESRF, he says. "We're still new at this business of variable pressure. I'll be gaining experience with people who are doing similar kinds of research at

NASA, but not nearly at the scale or capacity we have with our new facility. It's the next big step in implementing the variable-pressure growth experiments we plan here."

Dixon has been studying how to sustain life in space for 10 years. He predicts that in another 20 to 30 years, people will be going to Mars.

BY STACEY CURRY GUNN

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The Gift of Friendship

United Way support allows local Big Brother, Big Sister associations to provide programs for children in need

MONEY CAN'T BUY friendship. But it can support two local agencies dedicated to building friendships between caring adults and children in need.

The Big Sister Association of Guelph and the Big Brother Association of Guelph and Wellington County are two of the 51 area organizations whose programs depend on the United Way for support. Both receive a substantial portion of their funding from the agency, which is now in the final stages of its 2001 fund-raising campaign.

"We wouldn't exist without the wonderful, wonderful support of the United Way," says Shari Lynn Ladanchuk, a B.A.Sc. graduate of Guelph who is executive director of Big Sisters. "We receive no government funding, so we have to rely on the United Way and the fund-raising we do on our own."

Josh Silvertown, a PhD student in the Department of Biomedical Sciences who is a Big Brother and a member of the Big Brothers board of directors, echoes that sentiment. "We'd have a hard time making ends meet without United Way funding," he says. "We very much appreciate the generosity of the thousands of donors at U of G and across Guelph-Wellington who provide this support."

Big Brothers has been running in Guelph since 1968; Big Sisters began in 1975. Both offer one-on-one programs that match adults up with children who may be experiencing challenges as a result of poverty, losing a parent, developmental problems or family circumstances. Both agencies also offer group programs for children waiting for a match. In addition, Big Sisters offers pre-teen and teen

group programs, and Big Brothers recently launched an in-school mentoring program with support from the Trillium Foundation. The goal of all these programs is to boost the self-esteem, emotional well-being and social development of the children involved.

"We're always looking for volunteers for all these programs," notes Silvertown, who chairs the Big Brothers recruitment committee. Currently, Big Brothers has 37 one-on-one and couples matches and a waiting list of about 50, and Big Sisters has 70 matches, with a waiting list of 45.

What does it take to be a volunteer? You must be at least 18 and willing to commit three to four hours a week for 18 months. You must have a sincere interest in befriending a child or young person, should be caring and patient and must be interested in serving as a role model, a mentor and, above all, a friend. Potential volunteers must attend an orientation and training session, be interviewed, undergo a police clearance and provide references before they are accepted into the program. Once in

the program, they are matched up with a Little Brother or Sister on the basis of such factors as common interests, personality and geographical location.

For those who volunteer, like Melanie Johnstone, an M.Sc. graduate of Guelph who is now a research associate in the Department of Plant Agriculture, the rewards are many. A Big Sister for three years, Johnstone says it's great to feel like she's making a difference in a young person's life.

"My Little Sister is 14 now, and I've enjoyed watching her grow and change. She's the middle of five children and it's hard for her to get attention at home, so I'm happy to be able to provide that — to be someone she can talk to on the outside."

Johnstone says she also likes being able to expose her Little Sister to activities and opportunities she wouldn't normally have access to. "Plus, it's a great excuse for me to do fun things and keep in touch with the community."

Silvertown, who joined the Big Brothers group program as an undergraduate student in

1997 and is now leader of a group for eight- to 10-year-olds waiting for a match, also enjoys seeing his charges blossom with the 100-per-cent attention they receive.

"Some kids actually enjoy the group program so much, they don't want to be matched in the one-to-one program. They really appreciate all the fun activities, and the fact that they have five Big Brothers and 11 other Little Brothers to play with makes their time more exciting. They talk about us at school, they write about us in their diaries — sometimes they even include us in their family tree. And some say they want to be Big Brothers themselves one day. That's very rewarding."

Silvertown, who was an active volunteer throughout his high school years, says his involvement in Big Brothers is also his way of giving back to the Guelph community.

Both Big Sisters and Big Brothers maintain active fund-raising programs apart from the support they receive from the United Way. Big Brothers stages an annual bowl-a-thon (next year's is slated for Feb. 2 to 9), a golf tournament and raffles and receives funding from Nevada lottery tickets. Big Sisters holds a dinner-dance and auction, hosts a golf tournament and sells a lottery calendar, featuring art by Little Sisters. This year's calendar, being released Dec. 1, features a Guelph Little Sister on the cover.

For more information about Big Brothers and its volunteer opportunities, call 824-5154 or send e-mail to bbguelph@aol.com. To learn more about Big Sisters, call 824-0800 or send e-mail to bsag@bigsisters.guelph.org.

BY BARBARA CHANCE

UW Campaign Still Counting

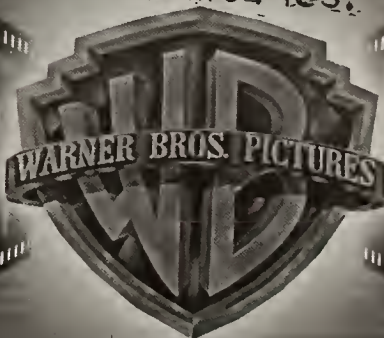
IT'S NOT TOO LATE to give to the campus United Way campaign, which officially closes this week. The last tally was \$35,000 short of this year's goal. Volunteers say they hope to receive last-minute payroll forms and cash gifts this week to help match the \$240,000 given last year.

The University launched its United Way drive Sept. 8 when the Central Student Association raised \$6,500 by selling Tootsie Pops.

Since then, employee canvassers have been encouraging donations through payroll deduction, and many departments across campus have hosted special fund-raising events to support the campaign. A campus-wide United Way raffle will conclude with a draw Nov. 29 at a volunteer appreciation event. Tickets for the resort vacation are still available from all United Way canvassers.

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Research Data Centre Will Boost Access to Statistics

Official opening slated for Dec. 7 at the University of Waterloo

RESEARCHERS AT U OF G are joining forces with colleagues at the University of Waterloo and Wilfrid Laurier to gain and provide access to a rich new array of longitudinal studies from Statistics Canada.

On Dec. 7, the Southwestern Ontario Research Data Centre (SWORDC) will officially open at the University of Waterloo. It's one of nine regional research data centres set up across Canada as a joint venture between StatsCan and the Social Sciences and Humanities Research Council (SSHRC). A Canada Foundation for Innovation grant of about \$5.38 million will be shared by the nine centres to help cover the first five years of their programs.

Originally spearheaded by Waterloo, SWORDC has grown to include Guelph, Laurier, Brock University, the University of Windsor and the University of Western Ontario.

In the 1990s, StatsCan began producing a series of longitudinal data files in the areas of health, children and labour. One concern about producing this data was the confidentiality of the people surveyed. SWORDC will provide researchers with access to the confidential por-

tions of these studies.

Bo Wandschneider, manager of Academic Services in Computing and Communications Services (CCS), says that because of the increase in longitudinal data and StatsCan's growing concerns about confidentiality, many researchers have found that the variables they want to analyse are suppressed.

"Sending these researchers to Statistics Canada in Ottawa is costly and often prohibitive, especially for graduate students," he says. "Working with Waterloo to have SWORDC so close should help our researchers tackle a whole new array of issues."

SWORDC is both a secure StatsCan office and a statistical computing laboratory, with a StatsCan analyst on site. Researchers interested in using the centre will be required to submit a proposal that will be peer-reviewed.

Prof. Vinay Kanetkar, Consumer Studies, has already had a proposal accepted by SWORDC to evaluate the psychometric properties of sense of coherence scales using individual item responses from the National Population Health Survey. The measurement of sense of coherence indicates how individuals in society

perceive and manage events external to their life. Kanetkar proposes to test the link between sense of coherence and an individual's health outcomes.

"To protect the identity of individuals, many of the questions in the public use file have been aggregated," he says. "To effectively evaluate these properties, we need to access the uncategorized or raw responses. Working at SWORDC will allow access to the complete data set."

Doug Horne, manager of government publications and data service in the U of G Library, says SWORDC "is a great complement to what we're already doing in the Data Resource Centre." That centre is a joint project of the library and CCS.

SWORDC will also enhance training in the areas of social data analysis and social policy research, areas that have been identified as requiring improvements by a joint working group of StatsCan and SSHRC.

This is the third research data centre of this magnitude in Ontario, says Wandschneider. The others are located at McMaster University and the University of Toronto. The other six centres nationally are at Dalhousie University and the universities of British Columbia, Calgary, Alberta, Montreal and New Brunswick.

The Dec. 7 SWORDC opening runs from 2:20 to 4:30 p.m. in Room 2220 of the PAS Building at Waterloo. For more information, send e-mail to drc@uoguelph.ca or check out the Web site <http://drc.uoguelph.ca>.

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Furnished bachelor apartment in quiet neighbourhood for mature, quiet student for Dec. 15 or Jan. 1, with laundry and separate entrance, bath and kitchen, preferably within 30-minute walk from campus, non-smoker, no pets, reasonable rent

with parking, send e-mail to sunflowersjo@hotmail.com.

Garage or covered parking space in Stone Road Mall area for winter, Ellen, 822-0159.

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To share two-bedroom apartment or seeking a bachelor/basement apartment with parking and laundry, needed Dec. 1, 416-819-1094 or tariq@ca.inter.net.

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EVENTS

ARBORETUM

The Arboretum's Theatre in the Trees presents the comedy *Ghost of a Chance* by Flip Kobler and Cindy Marcus Saturdays until Dec. 15. Doors open at 6 p.m., the buffet is at 6:30 p.m. and showtime is 8 p.m. Cost is \$49. To order tickets or special seating, call Ext. 4110.

COLLOQUIUM

The Rural Studies Colloquium presents Prof. Jorge Nef, Rural Extension Studies, discussing "Doing Research on Human Insecurity: A Multi-Sided Interdisciplinary Agenda and Its Relevance to Sustainable Rural Communities" Dec. 3 at 10 a.m. in Landscape Architecture 134.

CONCERTS

The School of Fine Art and Music presents student soloists performing Nov. 29 and 30 at 12:10 p.m. in MacKinnon 107. Two applied music final recitals are slated for Dec. 11. Soprano Rosanne Camacho performs at 5 p.m., followed by soprano Kristina Szabo at 5:30 p.m.

The U of G Concert Winds, led by John Goddard, perform Nov. 28 at 6 p.m. in Peter Clark Hall. The program will include works by John Philip Sousa, Louis Armstrong and Serge Prokofiev. Admission is free.

Prof. Howard Spring conducts the Jazz Ensemble Nov. 29 at 8 p.m. at the University Club. The program features works by Miles Davis, Duke Ellington, Billie Holiday and Oliver Nelson. Tickets are \$2 at the door.

The U of G Orchestra, conducted by Henry Janzen, will perform Mozart's *Symphonic Concertante*, *Dance Suite* from Aaron Copland's *Rodeo* and *Les Préludes* by Franz Liszt Nov. 30 at 8 p.m. at the River Run Centre. Tickets are \$16 and \$8 and are available by calling 763-3000.

FORUM

The School of Languages and Literatures Forum presents Prof. Andrew Sherwood discussing "Boundaries Between Roman and Non-Roman in North Africa: A New Trajanic Inscription" Nov. 29 at 4 p.m. in the University Club on UC Level 5.

LECTURES

The Raithby Memorial Lecture Series presents Gary Smith, a distinguished professor in the Department of Animal Science at Colorado State

University, Nov. 30 at 10:45 a.m. at the Cullen Club. His topic is "Beef Industry: Past, Present and Beyond." Smith has studied all aspects of beef production, including recently overseeing the U.S. beef quality audit.

Una Chaudhuri, chair of drama at the Tisch School of the Arts at New York University, will give a free public lecture Nov. 30 at 4 p.m. in MacKinnon 117 on "Freaks of Nature: The Ecological Grotesque in Performance." The lecture is sponsored by the School of Literatures and Performance Studies in English, the College of Arts dean's office and the journal *Modern Drama*.

NOTICES

U of G's Ecumenical Campus Ministry and Harcourt United Church will hold a candlelight service to commemorate the 1989 Montreal massacre Dec. 6 at 7:30 p.m. at the church. Everyone is welcome. Bring your own candle.

A memorial service for those facing Christmas after the death of a loved one will be held Dec. 10 at 5:30 p.m. in UC 103. The non-denominational service will include music, readings and naming the departed. For more details, call Lucy Reid of the Multi-Faith Resource Team at Ext. 2390.

The Wellness Centre is launching an adoption search and reunion support group, with the first meeting slated for Jan. 8 at 5:30 p.m. For more information, send e-mail to jforster@uoguelph.ca.

From Dec. 3 to 13, the McLaughlin Library will be open extended hours as follows: 8:30 a.m. to 1:15 a.m. Monday to Friday and 10 a.m. to 1:15 a.m. on weekends. Throughout this period, the OVC Learning Commons will be open from 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on weekends. On Dec. 14, both libraries will be open from 8:30 a.m. to midnight. For reference service hours, call Ext. 3617.

A show of illuminated miniature paintings in medieval and Renaissance styles by Debbie Thompson Wilson runs Dec. 1 to 20 in Johnston 104. The show officially opens Dec. 1 and 2 from noon to 5 p.m., with a special campus preview slated for Nov. 30 from 4 to 6 p.m.

The Department of Athletics is sponsoring a Dance Jam Nov. 28 from 4:30 to 6 p.m. in the west gym. It's intended as a celebration of dance and the winding down of the

fall semester. Everyone is invited to participate. No special experience is required.

SEMINARS

The Department of Chemistry and Biochemistry presents Diethard Bohme of York University discussing "Atomic Metal Ions: Reactivities, Periodicities, Affinities and Eccentricities" Nov. 28 at 3:15 p.m. in MacNaughton 222.

"Comparison of Structures of an Immunoglobulin Light Chain Dimer Crystallized in a Micro- and Unit Gravity" is the focus of Allen Edmundson of the Oklahoma Medical Research Foundation Nov. 29 at 12:30 p.m. in OVC 1714. The seminar is sponsored by the departments of Pathobiology, Microbiology, Chemistry and Biochemistry and Environmental Biology.

The Axelrod Institute of Ichthyology seminar series continues Dec. 4 with graduate student Nick Preston exploring "Lake Erie Zooplankton and Life in the Pelagic Zone." On Dec. 11, the topic is "Growth and Reproduction of Lake Whitefish: Life History Strategies" with graduate student Karine Beauchamp. The seminars begin at 12:30 p.m. in Axelrod 168.

Next up in the fall biochemistry seminar series is Prof. Marica Bakovic, Human Biology and Nutritional Sciences, discussing "Transcriptional Regulation of Phospholipid Biosynthesis" Dec. 6 at noon in MacNaughton 222.

The Department of Computing and Information Science is hosting a workshop on distributed computing and communications curriculum development, which will include two public seminars. On Dec. 6, the topic is "A Bachelor's and Master's Program in Computer Science and Communication Engineering" with Ralf Denzer of the Saarland State University of Applied Science in Germany. On Dec. 7, Ernst-Erich Döberkat of the University of Dortmund in Germany discusses "Mobile Computing in the DCCT Curriculum." Both seminars begin at 3:30 p.m. in MacKinnon 116.

THESIS DEFENCES

The final examination of Jane Shearer, a PhD candidate in the Department of Human Biology and Nutritional Sciences, is Nov. 29 at 1 p.m. in Animal Science and Nutrition 336. The thesis is "Regulation of

Pro- and Macroglycogen and Glycogen-Associated Enzymes During Rest and Exercise." The adviser is Prof. Terry Graham.

The final examination of M.Sc. candidate Suzanne Gray, Department of Zoology, is Nov. 30 at 2 p.m. in Axelrod 265A. The thesis is "Ecological Character Displacement in Brook Sticklebacks (*Culaea inconstans*)." The adviser is Prof. Beren Robinson.

The final examination of Christopher Jastrebski, an M.Sc. candidate in the Department of Zoology, is Dec. 3 at 2 p.m. in Axelrod 265A. The thesis is "Divergence and Selection in Trophically Polymorphic Pumpkinseed Sunfish (*Lepomis gibbosus*)." The adviser is Prof. Beren Robinson.

The final examination of PhD candidate Neil Blackburn, Department of Microbiology, is Dec. 4 at 9:30 a.m. in Animal Science and Nutrition 141. The thesis is "Characterization of Family Three Lytic Transglycosylases From *Pseudomonas aeruginosa*." The adviser is Prof. Anthony Clarke.

The final examination of Renata Bzdrya, an M.Sc. candidate in the Department of Psychology, is Dec. 4 at 2 p.m. in MacKinnon 305. The thesis is "The Relationship Between Shyness and Self-Determination in Middle Childhood." The adviser is Prof. Mary Ann Evans.

The final examination of M.Sc. candidate David Vasseur, Zoology, is Dec. 5 at 2 p.m. in Axelrod 265A. The thesis is "The Implications of Spatial Heterogeneity for the Dynamics of Small Theoretical Communities." The adviser is Prof. Peter Yodzis.

The final examination of Gregory Klages, an MA candidate in the Department of History, is Dec. 14 at 1:30 p.m. in MacKinnon 132. The thesis is "Emulation of the Bureaucrats: The Renegotiation of Canada's Visual Arts Management During the Trudeau Era (1968-1984)." The adviser is Prof. Terry Crowley.

The final examination of Davor Ojick, a PhD candidate in the Department of Pathobiology, is Dec. 18 at 1:30 p.m. in Pathobiology 101. The thesis is "Genomic and Transcriptional Analyses of Fowl Adenovirus and Construction of Recombinant Viruses." The adviser is Prof. Éva Nagy.

WORKSHOPS

Computing and Communications Services' workshops for faculty and staff continue with "Corporate Time Intermediate" Dec. 4, "Getting Around Excel" Dec. 5 and "Corporate Time for Designates" Dec. 12. Detailed descriptions and registration are available on the Web at www.uoguelph.ca/ccs/training.

COMMUNITY EVENTS

The Alzheimer Society of Guelph-Wellington presents "Christmas Carols by Candlelight" featuring the Elora Festival Singers Dec. 11 at 7:30 p.m. at St. George's Anglican Church. For tickets, call 836-7672.

Afghan physician Sima Samar will give a public talk in Guelph Dec. 15, discussing the urgent need to strengthen human rights of women and girls in Afghanistan and in the refugee camps in Pakistan. The talk begins at 7 p.m. at the Guelph Little Theatre and will be preceded by a reception beginning at 6 p.m. The talk is being held in conjunction with Rights and Democracy of Montreal and in affiliation with Women for Women of Afghanistan and Voice of Women for Peace.

The Guelph Chamber Choir, conducted by Gerald Neufeld, performs Handel's *Messiah* Dec. 22 at 8 p.m. at the River Run Centre. For tickets, call 763-3000.

The Canadian Federation of University Women will hold a Christmas social Dec. 11 at 7:30 p.m. at the Arboretum Centre.

The Guelph Chamber Orchestra presents a sing-along *Messiah* Dec. 9 at 3 p.m. at Church of Our Lady. For ticket information, call 763-3000.

The Guelph Civic Museum presents "Traditions and Celebrations of the Holiday Season" until Jan. 6. Continuing until Dec. 18 is the exhibition "Passages to Freedom: Secrets of the Underground Railroad."

The Guelph Concert Band celebrates the festive season with a concert titled "Do You Hear What I Hear?" Dec. 2 at 3 p.m. at Church of Our Lady. A silent auction starts at 2:30 p.m. Tickets are available at the door and by calling 763-3000.

The Guelph Youth Singers present a Christmas concert Dec. 1 at 7:30 p.m. at the River Run Centre. Call 763-3000 for tickets.

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- 6 **INTERNATIONALISM** must remain a priority, says retiring CIP director.
- 7 **STUDENT** leader is respected by peers, administrators alike.

During this festive season, I would like to offer my personal thanks to each member of the University community — faculty, staff and students on all our campuses and at each of our research stations — for your valuable contributions over the past year. I also extend my appreciation to our alumni, who have been so dedicated to the University. You are all at the core of our shared success.

Through our collective work, the University continues to make important contributions to society in scholarship, discovery, teaching/learning and service.

My family and I wish you happiness, health and the joy of family and friends during this holiday season and throughout the coming year.

*Season's greetings,
Mordechai Rozanski*



Prof. John Livernois has spent almost a year studying the financial impact that contaminated water has had on the community of Walkerton. PHOTO BY MARTIN SCHWALBE

Economist Puts Price Tag on Walkerton Water Tragedy

Direct costs \$64 million, society would pay another \$91 million to prevent recurrence

IT WAS A DAUNTING TASK, but economics professor John Livernois has finally put a price tag on the Walkerton water tragedy that left seven people dead and 2,300 ill. He estimates the direct costs of the crisis at \$64 million, but says society would be willing to spend another \$91 million to prevent future loss of life and illness similar to what the town suffered.

Livernois, an expert in environmental and natural resource economics, spent nearly a year researching and analysing the tragedy to come up with those figures.

"It was a major undertaking and different from anything I have done in the past," he says. Although it wasn't the first time he'd been involved with such a public and political issue, "this was so sensitive and we had to tread very carefully because there were a lot of legal issues to worry about."

Livernois was commissioned by the Walkerton judicial inquiry to determine the economic impact of the May 2000 water crisis. His report, released in late November, was based on anonymous surveys of hundreds of Walkerton residents and businesses, conducted by U of G graduate students. Prof. Fred Evers, Sociology and Anthropology, assisted with the resident surveys; Livernois headed the business end and compiled data from both sections into a final report.

Since the report was made public, Livernois has repeated the total \$155-million price tag dozens of times — to Walkerton Inquiry officials; to newspaper, radio and television reporters; and to colleagues, students and friends. He can even rattle off the top of his head the smaller numbers that make up that bottom line: how much real estate depreciated, the expense of making trips back and forth to hospitals and doctors — right down to the cost of having to drive and pick up bottled water for eight months.

But it's obvious that even after sorting out all the details and doing the math, Livernois is not entirely comfortable talking about that \$155-million estimate without careful explanation. He wants to make it clear that he has not placed a value on the seven lives that were lost. That, he says, is impossible.

"No finite sum of money would be sufficient. The real costs of what happened in Walkerton — people lost their lives and others will be sick the rest of their lives — cannot be quantified."

At the same time, however, trying to measure the costs of a crisis like Walkerton without recognizing the illness and loss of life it caused is unrealistic and unreasonable, he says. "It would tell only half the story." So in his reports, Livernois breaks down the cost of the water tragedy into two categories: tangible costs (those that can be measured directly), estimated

at about \$64 million, and intangible costs (such as preventing human suffering), estimated at close to \$91 million.

"Although it's pointless to try to estimate the value of a life, it is quite a different thing to ask what society is willing to pay to reduce the risk of a lost life," he says.

To come up with that figure, Livernois used existing economic models that determine "statistical values of life." These models have shown that people are willing to pay a substantial amount — between \$5 million and \$15 million — to prevent the loss of one "statistical life" and about \$15,000 to prevent one serious "statistical illness." Livernois used an average of \$8 million per statistical life and the \$15,000 per statistical illness in his analysis.

"We're saying that the amount of money society is willing to pay to prevent a death and illness from a similar tragedy in the future is about \$91 million. That's quite a different thing than saying the lives that were lost were worth \$91 million."

In terms of tangible costs, the study shows that each of Walkerton's 5,000 residents spent an average of \$4,000 as a result of the water contamination, for a total of \$6.9 million. In addition, property values fell by about \$1.1 million because of the crisis, and local businesses lost about \$2.7 million in revenues and

Continued on page 10

Canada Research Chairs to Two

Appointments to expand work in biomedical sciences, rural history

ABIOMEDICAL SCIENTIST pursuing better ways of controlling Alzheimer's disease, cirrhosis and tumour growth and a scholar aiming to build a new Canadian economic history based on the experiences of ordinary farm families are the latest faculty to be named to Canada Research Chairs at U of G.

Prof. Jonathan LaMarre, Biomedical Sciences, has been awarded \$100,000 annually for the next seven years to hold a junior chair in comparative biomedical sciences. Douglas McCalla, currently a history professor at Trent University, will receive \$200,000 annually for five years to hold a senior chair in Canadian rural history. He will take up the appointment in the new year.

Industry Minister Brian Tobin unveiled the two chairs as part of a national Canada Research Chairs announcement Nov. 29 at McMaster University.

"This is wonderful news for the University of Guelph," said Prof. Deborah Stacey, assistant vice-president (research and infrastructure programs). "The appointment of Prof. LaMarre is very appropriate, given our great strengths in the life sciences as they relate to human health. And the appointment of Prof. McCalla, our first chair recruited externally, fits in very well with the University's emphasis on rural studies."

As holder of a Canada Research Chair, LaMarre will lead laboratory inquiry on the regulation of individual genes, tissues and species and their role in disease states. The work is expected to substantially increase scientific knowledge in many health areas, including the diagnosis, pathogenesis and potential therapies for several animal- and human-related illnesses. A faculty member at Guelph since 1993, LaMarre is an internationally recognized scientist and the winner of seven prior prestigious scientific awards, fellowships and scholarships.

Continued on page 4



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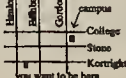
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SENATE REPORT

President Lauds Contributions of University Community

PRESIDENT MORDECHAI ROZANSKI began the last Senate meeting of 2001 by reporting on the University's performance in *Maclean's* magazine's annual ranking of universities, indicating areas where the University did well and less well (See Nov. 14 issue of @Guelph). Rozanski thanked members of the faculty, staff, students and alumni for their important contributions to the University's quality and

reputation, which continue to gain national recognition. Nevertheless, the president cautioned that more funding is still needed to deal with rising student-to-faculty ratios that result in growing class sizes, both of which influence the University's quality.

He added that he and other executive heads of Ontario universities continue to meet with provincial officials to pursue this agenda.

AUCC CAMPAIGN

The president drew senators' attention to a new Association of Universities and Colleges of Canada (AUCC) national campaign to inform the public about the value and benefits of an arts and sciences undergraduate university education. AUCC's efforts, he said, complement the advocacy work and recent publications of the Humanities and Social Sciences Federation of Canada, designed to highlight the essential role that social sciences and humanities play in the teaching and research mission of Canadian universities.

In other news, the president advised Senate that registrar Chuck Cunningham has been named di-

rector of Communications and Public Affairs. An open search for a new registrar will be initiated in the near future.

Rozanski also welcomed Prof. Dave Hume to his new role as interim associate vice-president (research, agri-food and partnerships). Hume will work closely with Prof. Alan Wildeman, vice-president (research), on renewing the University's enhanced partnership with the Ontario Ministry of Agriculture, Food and Rural Affairs.

SENATE MEETING SCHEDULE

Senators approved a motion brought forward by its executive committee to move from a four-

week to a five-week meeting cycle, reducing the number of meetings from 10 to eight a year. This will make the scheduling of Senate meetings more flexible, will ensure meetings are held when needed and will save the University money on photocopying and mailing costs, a memorandum on the proposal explained.

UPDATE ON SCIENCE COMPLEX DEVELOPMENT

Prof. Alastair Summerlee, provost and vice-president (academic), gave senators a detailed presentation on the newest developments surrounding the building of the University's science complex (see column below.)

TOWARD 2010

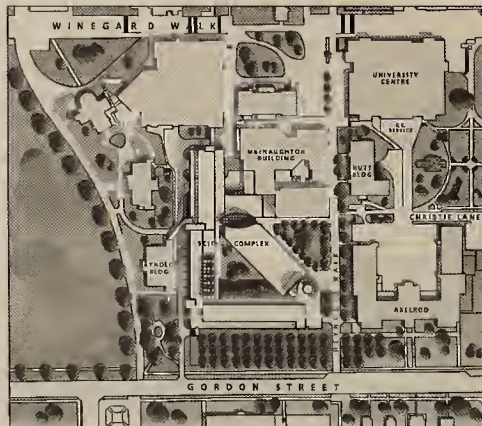
Envisioning the University's New Science Complex

PLANs FOR ONE of the University of Guelph's most ambitious building projects — its multi-million-dollar science and classroom complex — are firmly on track, says Prof. Alastair Summerlee, provost and vice-president (academic).

At the Nov. 27 meeting of Senate, Summerlee updated faculty, staff, administrators and students on the progress to date on the science complex portion of the project and revealed that over the long term, the University also plans to create a social science complex and expand facilities for the humanities. The science and classroom complex is the first step in this preparation for the future, however.

While providing ultra-modern teaching laboratories and research facilities, the science complex will, among other objectives, consolidate infrastructure support, enhance research collaboration and provide opportunities for funding (through a new centre known as the Advanced Analysis and Training Centre), he said.

It will also answer a number of Guelph's deferred-maintenance is-



sues, mainly through the tearing down of the Chemistry and Microbiology Building, the eventual renovation of Axelrod and the partial renovation of MacNaughton. Cost of the project is targeted at \$124 million, with the provincial SuperBuild program providing \$51 million and the University planning to raise the rest, primarily from external sources such as fund-raising

and the Canada Foundation for Innovation.

To be located off Gordon Street between the path on Johnston Green and Reynolds Walk, the science complex will be built in stages, Summerlee said.

The first phase, which will begin in September 2003, will see the erection of a building to house

Continued on page 10



Editor Barbara Chance
b.chance@exec.uoguelph.ca

Design Peter Enneson

Layout Linda Graham
l.graham@exec.uoguelph.ca

Advertising Brian Downey
b.downey@exec.uoguelph.ca

Director Chuck Cunningham
c.cunningham@exec.uoguelph.ca

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COLLÈGE D'ALFRED RECEIVES WUSC AWARD

The local World University Service of Canada (WUSC) committee at Collège d'Alfred was presented with a WUSC Award at its annual meeting. The award recognizes the committee's recent contributions, continuing involvement in the WUSC mission and the organization of activities on campus and in the community that have helped increase awareness and knowledge of international development and issues related to refugees. Last year, Alfred students voted to add \$10 to their annual tuition to foster two refugee students.

LIBRARY HOURS REDUCED BETWEEN SEMESTERS

The U of G Library will operate on a reduced schedule and with limited services during the holiday and between-semester period. From Dec. 15 to 23, McLaughlin will be open from 8:30 a.m. to 7 p.m. Monday to Friday and noon to 7 p.m. on the weekend. The OVC Learning Commons will be open from 8:30 a.m. to 5 p.m. Monday to Friday and closed on the weekend. Both libraries will be closed Dec. 24 to Dec. 26, open from noon to 5 p.m. Dec. 27 to 29 and closed again Dec. 30 to Jan. 1.

CENTRE LAUNCHES AWARDS

The Centre for Families, Work and Well-Being is calling for nominations for two new research awards sponsored by the Hudson's Bay Corporation. The awards recognize outstanding papers written in 2001 by undergraduate and graduate students on a topic related to work-family issues in the Canadian or comparative context. The best undergraduate paper will receive \$1,000; the best graduate paper, \$2,000. The competition is open to all students registered at Canadian universities. At least two faculty members must review and recommend a paper for submission. Competition deadline is Feb. 15. For more information, contact Linda Hawkins at Ext. 3829 or lihawkin@uoguelph.ca.

ART AUCTION A SUCCESS

The Macdonald Stewart Art Centre's annual Framed Art Auction last month raised about \$25,000 through the auction of 43 works by prominent regional artists, as well as several furniture items decorated by Centennial CVI art students.

INTERNATIONAL FIELD STUDIES GRANTS AVAILABLE

Applications are now being accepted for international field studies grants to provide support for up to five U of G students to complement their studies with a global and cross-cultural experience. Senior undergraduates and graduate students are eligible for the awards. Application forms are available from the InfoCentre in the Centre for International Programs in Day Hall. Deadline for submissions is Feb. 8.

Sod Turning Launches Work on Guelph-Humber Building

SuperBuild-funded construction slated for completion by fall 2003



Digging in at the ceremonial sod turning for the University of Guelph-Humber building are, from left, U of G students Mike Stephenson and Natalie Ross; Dianne Cunningham, minister of training, colleges and universities; students Kendra Holliday, Kathleen Duncan, Vance McPherson and David Hornsby; and president Mordechai Rozanski.

PHOTO BY DAVID LUI, HUMBER COLLEGE AV GRAPHICS

GROUND HAS officially been broken for the new \$45-million University of Guelph-Humber building.

A symbolic sod-turning ceremony was held Nov. 29 at Humber College's northwest Toronto campus, attended by Dianne Cunningham, minister of training, colleges and universities; president Mordechai Rozanski; Humber College president Robert Gordon; and student leaders and officials from both institutions. The Ontario government committed close to \$29 million from the SuperBuild fund for the four-storey building, scheduled to open at Humber in fall 2003.

Guelph-Humber will be the first institution in Ontario to offer both an honours university degree and a college diploma to its graduates in just four years of study.

"I know that I am the envy of all the provinces—you cannot imagine how proud I am to be here today," Cunningham said, adding that such a university-college partnership has been needed for decades.

She congratulated U of G and

Humber on their "great spirit of collaboration" and said the project is also "about staying ahead of everyone else and about innovation" because it offers students a wider range of choices in high-quality post-secondary education.

"We have to focus on what the students need, what the community needs and where the jobs are," Cunningham said. "These students will hit the pavement running and be out ahead of many students in North America.... It's a great time to be a student in Ontario."

Guelph-Humber will accept 200 students next fall into three programs: business, computing and media studies. Additional program offerings—including early childhood services, gerontology, family and community social services, and justice studies and police foundations—will be added in 2003. By 2005, the university will accommodate about 2,000 students.

Tuition will be comparable with that of other Ontario university programs in the Toronto area, and courses will be taught by faculty from

both Guelph and Humber.

"Today's groundbreaking ceremony is an important milestone in the ambitious goal we set for ourselves more than two years ago," said Rozanski. "Our goal was to provide an innovative third path to post-secondary education in Toronto, one that faithfully combined the individual strengths and traditions of the University of Guelph and Humber College into a seamless curriculum."

Guelph-Humber delivers the best of both educational sectors, he said. "At its core, Guelph-Humber is all about students, focused on expanding student accessibility and opportunity."

Gordon agreed, adding: "We have developed a curriculum that meets the emerging needs of employers for strategic skills and will enable students to pursue post-graduate studies if they choose to continue their education."

The new building will have specialized laboratories and classrooms, an Internet café, a learning commons and an atrium for major events.

BY LORI BONA HUNT

PEOPLE

GEOGRAPHER VISITS JAPAN

Retired geography professor Fred Dahms has just returned from two weeks in Japan, where he was a guest of the Kyoto University Rural Settlement Research Group. While there, he participated in meetings of the Japanese Human Geography Society at Kobe University and collaborated with colleagues at Kyoto and Tsukuba universities. He also participated in field studies in Shiga, Toyama and Ibaraki prefectures. In addition, Dahms was the keynote speaker at a rural symposium in Tonami City, where he addressed 200 scholars, civic officials and the general public on the topic "Dying and Rejuvenated Villages in Canada."

COUNSELLING DIRECTORS GATHER IN TORONTO

Bruno Mancini, director of the Counselling and Student Development Centre, was one of the organizers of the 2001 conference of the Association for University and College Counselling Centre Directors, held in Toronto. Counselling directors attended from across the United States and Canada. Mancini also led a workshop on exam anxiety and chaired a keynote talk.

EISENBACH CO-HOSTS NODA CONFERENCE

Mildred Eisenbach, University College Connection co-ordinator in Student Housing Services, co-hosted the annual conference of the National Orientation Directors Association (NODA) in Toronto. This was the first time NODA's conference has been held outside the United States. More than 700 people attended from North America and around the world. Provincial co-ordinator of NODA from 1990 to 1998, Eisenbach is currently chair of the Canadian network.

GRYPHONS RECOGNIZED

Three football Gryphons were recently selected as offensive Canadian Interuniversity Sport Second Team All-Canadians. They are fourth-year commerce student Jonathan Bohnert of Waterloo, third-year human kinetics student Mike Palmer of Burlington and fourth-year DVM student Norman Nasser of Scarborough.

APPOINTMENTS

Beatrix Beisner of the University of Wisconsin-Madison will join the Department of Zoology as an assistant professor July 1, 2002.

Andrea Bradford of Oakville will join the School of Engineering as an assistant professor May 1, 2002.

Prof. Stewart Hiltz was appointed chair of the Department of Land Resource Science for a five-year term that began Sept. 3.

Lewis Lewkins will join the Department of Plant Agriculture as an assistant professor April 1, 2002.

Simon Pearce has been appointed assistant professor in the Department of Clinical Studies, effective Jan. 2, 2002.

United Way Goes Over the Top

AFTER CONCERNS that the United Way campaign might fall short of last year's giving, 11th-hour donations pushed the 2001 total to well over \$250,000.

"We're thrilled by the generosity of the campus community," says co-chair Prof. Bev Kay, Land Resource Science. "It's heartwarming to see this kind of response, and it will make a huge difference to the overall Guelph and Wellington United Way campaign."

Co-chair Karen Reiner, manager of Co-operative Education Services, says the University campaign is well supported by employees, retirees

and students.

"The Lollypooza student event raised \$6,500 and was a great kickoff for the United Way campaign," she says. "And we really appreciate the efforts of volunteer co-ordinators and canvassers who distributed payroll forms, as well as all those people who organized and participated in special events. Those individual efforts add up to a really great response from the University community."

Beth Osmond of Student Housing Services received the annual Gabrielle Hubert Award for volunteer service at an appreciation luncheon Nov. 29. The President's Award

for special achievement went to the Central Student Association.

A highlight of the luncheon was drawing the winner of a vacation package donated by Golding Travel Ltd. of Guelph. Eileen Cook of the Department of Clinical Studies won the use of a one-bedroom condo for a week. Second prize in the campus-wide raffle, a U of G leather jacket, was won by John Burger of the Department of Biomedical Sciences. Lillian Wilson of Human Resources captured the third prize, a getaway night for two at the Best Western in Guelph and 20 per cent off dinner at Mirage Restaurant.

Two Chairs Named

Continued from page 1



Jonathan LaMarre



Douglas McCalla

McCalla is the author and editor of several books in economic and business history, notably an award-winning economic history of early Ontario. At Guelph, he will do systematic research on Canadian economic history from 1600 to 1939, based on the experiences of ordinary farm and artisan families of the day.

Launched by Ottawa in 2000, the Canada Research Chairs Program is designed to enable Canadian universities to become world-class centres of research excellence by providing them with new funds to recruit and retain world-class faculty. U of G is expected to have 35 chairs funded over the next few years; the two chairs announced Nov. 29 bring to seven the number funded to date.

"Universities are pivotal to Canada's new knowledge-driven economy because of their role in advancing the frontiers of knowledge and understanding," Tobin

said at the announcement. "By investing in our researchers through initiatives such as the Canada Research Chairs Program, the Government of Canada is promoting leading-edge research and innovation, providing exciting opportunities for Canadian researchers, and attracting the best research minds in the world to Canadian universities."

In addition to the new chairs, two of U of G's existing chairs received infrastructure funding from the Canada Foundation for Innovation. Prof. Jacek Lipkowski, Chemistry and Biochemistry, holder of the chair in electrochemistry, received close to \$140,000 for his work on thin film technology. Prof. Alejandro Marangoni, Food Science, who holds the chair in food and soft materials, received just over \$145,000 to study structure-function relationships in food and soft materials.

BY SUZANNE SOTO

Project Vision Survey Finds Campus Generally Positive

Survey respondents offer suggestions on promoting equity on basis of sexual orientation

U of G's learning environment for lesbian, gay, bisexual and transgendered (LGBT) people is generally positive, according to a survey conducted by the University's Human Rights and Equity Office (HREO).

The survey polled 3,000 faculty, staff and students. Of the 3,000, eight per cent self-identified as LGBT. Of those LGBT respondents, almost 90 per cent indicated they had not had to interrupt their academic activities, nor had they ever been advantaged or disadvantaged in class or at work, because of their sexual orientation.

The survey was part of Project Vision: Toward a Campus Free From Harassment and Unfair Treatment Based on Sexual Orientation, initially launched in 1997 by the HREO. Project Vision's goals were to identify both the challenges and positive developments affecting the participation of LGBT people on campus, and to develop strategies that create a work, study and research environment that fosters mutual trust and respect. Detailed results of the survey are to be released to the campus community on the HREO Web site early in January.

Guided by an advisory group of students, staff, faculty and admini-

stration representing a broad cross-section of the University, the project randomly surveyed campus community members in March 1998.

The aim was to determine, among other things, the overall climate for LGBT people on campus, respondents' beliefs and attitudes toward LGBT people, and respondents' awareness of what U of G has done or could do to promote equity on the basis of sexual orientation.

"We are pleased to provide this report because we believe it will serve to further discussion about issues facing LGBT people in the campus community," says HREO director Patrick Case. "At U of G, we take pride in being a caring community, one that values diversity."

The study garnered a response rate of more than 25 per cent. In addition to the survey, the research involved focus groups between March and April 1998, which were followed up with individual interviews a year later, from January to March 1999.

More than three-quarters of LGBT respondents, when asked if they had encountered any obstacles in accessing campus services, said they had had positive experiences with U of G service providers. But although more than 90 per cent had never experienced employment barriers at U of G because of their sexual orientation, 44 per cent felt that being openly LGBT might negatively affect a person's chances of career advancement at the University.

The survey also found that:

- Of the LGBT people who had been verbally harassed on campus, about one-third had not reported it. They also felt uncomfortable expressing their sexuality publicly and perceived it might be difficult to find on-campus housing that would allow them to be open about their sexual orientation.

- Over half of the heterosexual respondents said they would be uncomfortable if they learned that their roommate or housemate was LGBT or about viewing public displays of affection by same-sex couples.

When asked what the University

could do to make the environment more positive toward LGBT individuals, a number of ideas were generated by respondents, including:

- Offering more campus workshops and lectures about sexual and gender issues. The survey showed that the level of awareness among heterosexual respondents and the acceptance of LGBT people and issues were significantly higher for those who had attended such workshops and lectures.

- Providing personal and academic counsellors trained to deal with sexual and gender identity issues.

- Having LGBT people represented at all levels of the University and creating a safe and equitable environment where they can be open about their identity would be important next steps.

- Encouraging applications to external funding agencies and recognition both internally and externally for research on sexual orientation issues would increase incentives to conduct this type of work.

As for the next steps, Case said the survey results will be extremely helpful not only in addressing the needs of lesbian, gay, bisexual and transgendered people on campus, but also in addressing the needs of all members of the University community when it comes to sexual orientation issues.

"Any gains made as a result of attention to the issues addressed in this report are gains made by the entire community," he says. "An important next step will be to ensure that what we have learned through the survey will permeate our work across all areas. To that end, in the coming months, it will be important for all members of the University community to read the report and consider any possible implications for their areas of responsibility."

Case adds that the survey "tells us how far we've come and provides a foundation on which to build. In fact, the process itself has already resulted in positive developments across the institution because it has raised awareness of this particular human rights and equity issue."

BOARD OF GOVERNORS

Standing Room Only Expected at Chancellor's Gala

IT WILL LIKELY BE standing-room only at a Dec. 13 gala in Toronto to mark chancellor Lincoln Alexander's 80th birthday, president Mordechai Rozanski told Board of Governors at its Dec. 6 meeting.

High-ranking members of the political, business and

education sectors are among the guests expected to attend the celebration, which the chancellor has designated as a fund-raiser for U of G. Proceeds from the event will fund new scholarships to promote more diversity at the University.

The president told governors that Guelph's capital campaign is progressing well towards its goal of a public launch next spring. U of G's planning activities are also proceeding, despite current economic uncertainties at the provincial level.

Important informational tools being created to support ongoing planning activities are emerging from the University's performance indicator project, Rozanski added. Prof. Bryan Henry, Chemistry and Biochemistry, has led this project, working with a committee of faculty and staff and assisted by Ken Grant, director of Institutional Analysis and Planning. For the past year and a half, the group has been tracking the University's performance in several significant areas.

The data collected will allow Guelph to assess its overall progress towards its strategic goals and its objectives of being learner-centred and research-intensive, Rozanski said. Given the government's increasing emphasis on university accountability, the information will also help U of G satisfy some of those expectations.

In a presentation on perform-

ance indicators, Henry said the matter was being examined at both the macro and micro levels. The goals of both are to make performance measures at U of G transparent, easily measured, focused, few in number and dynamic, he said.

Roger du Toit, head of du Toit Allsopp, Hillier, the consultants hired by the University to help steer a review of its campus master plan, updated governors on that review.

Du Toit said his group — which also includes Prof. Jim Taylor, Landscape Architecture, and Chris Pickard, U of G's director of planning, engineering and construction — has received more than 130 completed "issue sheets," has held 26 meetings with stakeholder groups and organized a town hall meeting and intense design session.

Among the many key issues identified through this process are that the campus community is concerned about parking, walkways, Gordon Street, green space and preserving the University's traditions. The group will hold another town hall meeting in January, and its eventual goal is to produce a report and recommendations by April.

Following a presentation on the science complex by provost Alastair Summerlee (see page 2), B of G approved a motion to allocate another \$2 million from Superblock funds to enable continuation of the science complex design development.

Michael Walsh, head of B of G's finance committee, alerted governors that the University will soon have to replace its aging telephone system.

In a planning retreat following the meeting, the board reviewed and discussed the student experience at Guelph. Presentations focused on three areas: attracting students of high quality, presented by acting assistant registrar, liaison, Laura Beattie, and Chuck Cunningham, director of communications and public affairs; delivering a high-quality educational experience, presented by political science student Rich Appiah and Prof. Maureen Mancuso, associate vice-president (academic); and putting a high-quality education to use, presented by Brenda Whiteside, associate vice-president (student affairs), and Prof. Fred Evers, Sociology and Anthropology.

@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline
Jan. 16	Jan. 8
Jan. 30	Jan. 22
Feb. 13	Feb. 5
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EXPLORING THE POSSIBILITIES

More than 500 high school students, parents, teachers and guidance counsellors turned out for U of G's third annual Science and Engineering Night in November. The campus-wide event showcases the possibilities in science and engineering at Guelph through tours, displays and building and laboratory tours, as well as conversations with students, faculty, staff and alumni. Above, U of G students Erika Cady and Anna Zampini, members of the Chemistry/Biochemistry Club, show off Buckyballs.

PHOTO BY KRYSZYNA CZERNICKI

Accreditation Team to Visit

Designation verifies ability to meet international standards for veterinary medicine

AN ACCREDITATION TEAM will visit OVC Feb. 2 to 6 to assess how well the college measures up to international standards for veterinary medical schools. The accreditation process is conducted by the American Veterinary Medical Association (AVMA) in partnership with the Canadian Veterinary Medical Association (CMVA).

The on-site visit by a team of Americans and Canadians is a requirement for all veterinary colleges from both countries at least once every seven years—or more often if deficiencies are identified. Increasingly, veterinary colleges around the world are undergoing AVMA/CMVA accreditation to ensure they meet the same standards.

OVC dean Alan Meek says it's important that the college maintain its current designation of full accreditation "because it confirms that our graduates are well trained in the fundamental principles, scientific knowledge and skills of veterinary medicine, and that we meet the other essentials that are evaluated. Full accreditation verifies our ability to meet international standards for veterinary medicine, which is vital to assure Canadians and international consumers that our animal-care, inspection and food-safety practices are of the highest quality."

Veterinary colleges and veterinarians are an integral part of Canada's infrastructure for public health protection, including regulatory agencies, food safety, wildlife and environmental health, and medical research, says Meek.

Veterinary practitioners and researchers play a key role in disease surveillance and outbreak response—the front-line defence against threats such as mosquito-borne West Nile virus, mad cow disease, E.

coli outbreaks and other diseases transmitted through the food chain.

They also promote the quality and safety of food through proactive means, such as by animal health programs that decrease the use of antibiotics. And they advance human health through comparative medical research. Understanding animal diseases helps researchers better understand and treat human diseases.

Further to meeting important human and environmental health commitments, the CVMA notes that accreditation of Canada's veterinary colleges "provides a trade advantage to livestock and livestock-product exporters, since international trading partners are increasingly basing their health risk assessments on the competency of the national veterinary service . . . (which) is directly linked to the accreditation status of the veterinary colleges." Canada's food-animal industry has an estimated annual value of \$38 billion, including \$8 billion in exports.

Full accreditation also enables OVC graduates to readily obtain their licences to practice veterinary medicine, says Meek, and it greatly enhances the college's ability to recruit students, gain recognition for its graduates, recruit and retain faculty and maintain the quality of its research programs.

The accreditation team coming to OVC in February will evaluate the college's organization, finances, physical facilities and equipment, clinical resources, library and learning resources, students, admission, faculty, curriculum, continuing education and research programs. Full accreditation means OVC's program meets or exceeds all 11 of these standards, which are established by the U.S. Council on Education.

A college that is unable to meet

one or more standards is placed on limited-accreditation status until it remedies its shortcomings. Failure to do so results in the termination of accreditation status.

Of Canada's three other colleges of veterinary medicine, the Atlantic Veterinary College is fully accredited; the University of Saskatchewan's Western College of Veterinary Medicine is fully accredited but for a restricted period of time because of infrastructure and other concerns, and the Faculté de médecine vétérinaire at St. Hyacinthe in Quebec is on limited accreditation.

Meek says the deans of all four of Canada's veterinary colleges have been meeting with federal officials for a number of months to secure "much-needed reinvestment" in their facilities and they hoped to hear some promising news in the Dec. 10 federal budget. He notes, for example, that no Canadian veterinary college has "Level 3" biocontainment facilities, which is "a great concern given the new and emerging diseases such as West Nile virus and chronic wasting disease."

The U of G/Ontario Ministry of Agriculture, Food and Rural Affairs contract, which includes OVC's Veterinary Clinical Education Program (VCEP) funding, is also under review. The VCEP funding is vital to OVC's ability to provide its students with essential clinical education and to serve the animal-owning public of Ontario, says Meek.

"Our VCEP funding remains critical to delivering a high-quality veterinary clinical education, which is so important to protecting and advancing public, animal and environmental health and to helping ensure that the college continues to meet international standards."

BY STACEY CURRY GUNN

Environmental Biologist Wins Synergy Award for Pollination Work

Grant will help launch international pollination network to help increase sustainability in the agriculture industry

THE PIVOTAL ROLE of pollinators such as honeybees in sustainable agriculture is receiving growing attention, thanks to a Guelph professor who is the recipient of a 2001 Synergy Award from the Natural Sciences and Engineering Research Council and the Conference Board of Canada.

Prof. Peter Kevan, Environmental Biology, and the Ontario Beekeepers' Association were among the six university-industry partners to receive the prestigious award, which is designed to foster innovation, creativity and entrepreneurship in university-industry research and development. The university partner receives a \$25,000 research grant.

Kevan has spent the last 35 years researching the role of pollination in the sexual reproduction of plants. The Synergy Award recognizes his collaboration with the Ontario Beekeepers' Association, a consortium of 3,400 beekeepers. That work has benefited individual beekeepers as well as numerous growers' associations and individual growers, who have gained economically from planting their fields and orchards according to sustainable pollination methods.

For example, apple growers who follow agricultural practices that allow for pollination receive a 700-per-cent return on their investment, estimates Kevan, whose research has been commissioned by such organizations as the Ontario Fruit and Vegetable Growers' Association, the Ontario Processing Vegetable Growers, the Ontario Tender Fruit Producers' Marketing Board and Bick's Pickles, as well as by private farmers.

"The role of insect pollinators has been greatly underestimated and is a key constraint in contemporary agricultural practices," he says. "The economic value of such insects to pollination, seed set and fruit formation greatly outweighs the economic value of the honey and wax that honeybees alone produce."

But economic loss isn't the only concern for growers and agricultural policy-makers. Kevan warns that agricultural practices that disrupt natural pollination processes are

putting Canada and the world's food diversity and ecosystems at risk.

"Most fruits and many vegetables, not to mention seed production, rely on pollination, which is the first step, after flowering, in a plant's sexual reproduction," says Kevan, who has been trying to educate growers about pollinator conservation since 1965.

During that time, native honeybees have all but disappeared from Ontario—the result of pesticide use, habitat loss and the spread of such predators as Varroa mites and Africanized bees—while managed bees such as those provided by the Ontario Beekeepers' Association play a key role in developing sustainable agriculture programs.

"It has been an uphill battle to get people to pay attention to this area of conservation and biodiversity, not only in Canada, but in many parts of the world," says Kevan. "People in agriculture often seem to think we know all we need to know about pollination."

To help increase pollinator sustainability in the agriculture industry, Kevan will use his \$25,000 grant to help launch the International Network for Expertise in Sustainable Pollination (INESP), a research resource centre that he hopes to locate at U of G.

"The centre is of great national and international importance," says Kevan. "The only way the general public can assess reliable scientific information about pollination is for those who are scientifically trained to weed out information that is outdated, anecdotal or just plain inaccurate. It's a matter of getting accurate, up-to-date information out to as many people as possible."

To date, INESP has been endorsed by researchers at numerous international universities, including the University of São Paulo in Brazil, Bonn University in Germany, the University of the Americas in Mexico and the University of Haifa in Israel, and by researchers at universities and other institutions in Italy, India, South Africa, Malaysia, the United Kingdom and the United States.

BY KAREN LEVENSON
OFFICE OF RESEARCH

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GLOBAL PERSPECTIVE IS VITAL

It should not be possible any longer for a student to graduate from the University of Guelph without being exposed to the global dimensions of both scholarship and citizenship

By JIM SHUTE

"If you watch your pot, your food will not burn."
West African proverb

ON JUNE 28, 1967, the University of Guelph Senate passed a motion establishing Canada's first university international centre, an initiative that arose both from the long-standing rural outreach tradition already well-established at Guelph and from the new university's early embrace of an international perspective.

The 1960s saw a large influx of international students to Canada, Guelph included. These two factors — an outreach disposition and the growing number of international students — led the new University of Guelph Senate to strike an International Studies Committee in 1965, a more prescient move than could have been imagined. Its present-day successor, the Senate International Committee (SIC), is still the envy of most Canadian universities, few (if any) of which have a standing Senate international committee.

Another formative factor in U of G's early internationalization was the cosmopolitan faculty recruited to staff the rapidly growing university in the '60s and early '70s. This international faculty group brought their experience and perspectives to our classrooms, not to mention valuable institutional connections with their countries of origin.

These were the pre-conditions to setting up our centre, as well as to taking on our first development co-operation effort — a 1968 engineering link with the University of the West Indies in Trinidad. We did not pioneer university-based development projects; the University of British Columbia (with the University of Malaya) was the first, in 1961. It was in 1970, however, that our new link with the University of Ghana got under way. Considered a great success (even today, 22 years after its 1979 completion), this project had an enormous impact on this institution's embryonic internationalization. Eleven U of G departments in five colleges participated; 20 of our faculty and senior administrators spent time in Ghana. Seven of our M.Sc. students completed thesis research there, and 44 Ghanaians studied at Guelph or at our Canadian partners, the University of Manitoba and the University of British Columbia. The impact on both universities was lasting and has been well documented.

Among the benefits for U of G were new curriculum offerings, the exposure of a number of faculty and senior administrators to unfamiliar tropical environments and cultures, the first overseas research opportunities for Guelph graduate students, a substantial research and publication output (more than 200 items) by the participants (frequently jointly), and a new awareness of cross-cultural university partnership. The University of Ghana, I am pleased to say, remains a valued overseas partner, consistently sending us graduate students, and we are now exchanging, for the first time, undergraduate students.

In all, since 1970, the University of Guelph has managed or co-managed more than 80 development co-operation projects in 30 partner countries and institutions. We continue to participate in development co-operation, despite the fiercely competitive environment, because it continues to contribute directly to our broader internationalization portfolio — student and faculty overseas experience and research collaboration, not to mention contributing to the global battle against poverty and deprivation.

But the international portfolio at Guelph has grown rapidly from the early emphasis on development co-operation in the '70s to include an impressive array of student mobility programs (57 exchange agreements in 23 countries and semesters abroad in Guatemala, India, Poland, the United Kingdom and France), a consistently high-quality and diverse international student group (although still much diminished from the '70s and '80s, our numbers this fall are up 15 per cent from fall 2000), a full-time international student adviser, a set of Senate-approved guiding policies and protocols, collaborative research



links, a balance of university partners in both North and South, a mission statement giving some priority to internationalism (our 1972 mission statement, *Aims and Objectives of the University of Guelph*, was, again, probably the first in Canada to include internationalism), a centrally funded international office that effectively supports the University's international initiatives and, most important, an internationally minded faculty.

Since 1967, we have achieved a great deal in our efforts to develop a pervasive global perspective throughout the University. In 2002, the 35th anniversary of the establishment of the Centre for International Programs (CIP) will be, I suggest, an occasion to celebrate our distinctive achievements.

But the story doesn't end there. A great deal more effort is needed, in my view, to address our shortcomings and advance internationalization at Guelph. Here are some of my concerns as we look ahead:

- We need to get many more of our students abroad to study. At most, two per cent of our students will be abroad this academic year, the national average. The major obstacles are financial and curricular. I would like to see (and SIC has requested) more University resources allocated to student mobility (including a chunk of the capital campaign revenues), as well as a loosening up of the rigid course requirements that are blocking students in several programs from studying abroad. Laval's \$10-million endowment from internal resources and the University of British Columbia's \$6-million study-abroad endowment present us with useful models. It could be argued that the study-abroad fee we are currently forced to charge students selected for exchanges, semesters abroad and short-term study abroad adds to student financial burdens and is more appropriately an institutional responsibility. Student safety, security and well-being are jeopardized if, as happens too often, some avoid CIP's pre-departure orientation sessions because of the study-abroad fee they're required to pay. Graduate students are not yet required to attend an orientation before beginning overseas research — a risky situation, in my view.

- Because the vast majority of our undergraduate students will not study abroad, the global perspectives and sensitivities we try to cultivate through our academic programs must be attended to in the classroom in our regular curricular offerings, many of which are greatly in need of the review repeatedly called for by SIC but not yet implemented by any program committee.

- Our international student numbers have been too low during the 1990s, owing largely to differential fees and competition from other universities in Canada and abroad. Moreover, now that U.S. citizens constitute the largest number of out-of-country students, do we currently welcome the best mix of international students? The top five undergraduate source countries this fall are the United States, Trinidad and Tobago, India, China and Japan. The top five graduate student source countries are China, Mexico, the United States, South Korea, India and Brazil (tied). The countries of origin have diminished from about 90 a decade ago to 82 this semester. Among our lowest rankings in *Maclean's* last month were our low proportions of international students in first year (2.5 per cent, ranked ninth) and at the graduate level (16 per cent, ranked 10th). The international student presence has always been a major factor in internationalizing this campus.

- After almost 35 years of effort, it is high time to evaluate our progress. The University's experience with performance indicators provides one approach for such an evaluation, and SIC has had preliminary discussions on some relevant indicators. We now need the Senate Committee on University Planning (SCUP) to prompt such a systematic review.

- International research has been a hit-and-miss affair, largely involving individual faculty collaboration and primarily with industrialized country partners. I'd like to see a more diversified research portfolio that includes attention to a number of pressing global problems that our faculty are well equipped to address, from HIV/AIDS to climate change to food security.

- Participation in international activity remains somewhat skewed on this campus, with some departments, schools and colleges far more actively engaged than others. In fact, several are doing virtually nothing at all that could be called "international." The academic reward system still does not recognize adequately, particularly in some colleges, faculty participation in a broad range of international activity — and this several years after internationalization was adopted as a strategic priority by the University.

- Faculty renewal is critical for internationalization, particularly as many faculty who built our international connections and reputation retire. I'm concerned about hiring criteria if internationalism is not held constantly in view as a University priority. Above all other factors, it is the international experience and scholarship of faculty that sustain our internationalization. About 25 per cent of our faculty have had substantial international experience in various parts of the world. Ten years ago, that proportion was significantly higher. The "talent pool" is shrinking. No internationalized faculty means no sustainable internationalization.

- Finally, a number of colleagues in other universities are telling me, now that virtually every university has internationalism in its mission statement, that senior administrators appear to think the job of internationalizing campuses is complete. Similar sentiments are being heard here as faculty and students look to the administration for stronger vision and leadership. SCUP's September planning document, for instance, failed entirely to mention internationalization; it refers to "world class" but not to the world.

World events swirling around us this semester must surely remind the University community of our continuing responsibility to apply a global perspective to our degree programs, our research and our outreach. More — much more — international activity, supported by the requisite resources, is surely what is called for. It should not be possible any longer for a student to graduate from the University of Guelph without being exposed to the global dimensions of both scholarship and citizenship. Now more than ever, that imperative should guide us.

Prof. Jim Shute is director of the Centre for International Programs. He is retiring this month after 35 years at U of G.

AN OPEN DOOR, AN OPEN MIND

*CSA local affairs commissioner respected for his dedication
to students, willingness to listen, eagerness to learn*

BY LORI BONA HUNT

MIKE STEPHENSON HAS A reputation for having an open-door policy — both literally and figuratively — as the Central Student Association's local affairs commissioner. People drop by his comfortably cluttered office daily to ask for help finding an apartment or studying for an exam, to borrow his spare computer, or just to talk or help themselves to a pop from the stash he keeps under his desk.

So it's understandable that Stephenson hesitates when I suggest we do this interview in his office. It's a bit messy, he explains, and we will most certainly be interrupted. But meeting at the CSA gives me an excuse to venture into mostly unknown territory — the funky painted corridors of the University Centre's second floor. And seeing his office would give me a rare glimpse into this campus energy hub, for Stephenson's name is synonymous with student activism and leadership. I don't tell him this, of course. Instead, I mumble something about people's offices reflecting their personalities and how it would add to the article. "OK," he says, a bit reluctantly, and offers to make an exception to his rule: "I guess I could shut the door."

Well, if people's offices are indeed a reflection of their personalities, then Stephenson is a typical university student. Books and papers everywhere, CDs stacked up next to the computer, a package of chocolate chip cookies on the floor, muddy soccer cleats under the desk and a rubber chicken on top of a filing cabinet, which, he explains, is for last-minute pick-up games of "ultimate chicken." He even has the quintessential student appearance: a friendly, infectious smile, sideburns and a goatee-type beard, wearing old tennis shoes, jeans, a T-shirt and a backwards baseball cap.

But I know Stephenson is not a typical student. His reputation has preceded our meeting. The biomedical sciences major came to Guelph as a President's Scholar, the University's most prestigious entrance honour, bringing with him the Miller Thompson Foundation Scholarship, awarded to the top 100 Canadian high school graduates. He has received the Dean's Scholarship for the College of Biological Science three times and has been named to the college's Roll of Distinction, an honour given to seniors with a cumulative average above 85 per cent, four times. This year, he was nominated for a Rhodes Scholarship, applied to six medical schools and played on five intramural teams.

During his time at U of G, Stephenson has held just about every student leadership position possible (it takes five pages of his CV just to list the most noteworthy ones, all 56 of them). President of his residence hall and Interhall Council, chair of the committee to review U of G's Code of Conduct for Vendors on campus, a member of the University Judicial Committee, team leader of Project Serve, student Senator and member of the Guelph-Wellington Coalition for Social Justice, the United Way Steering Committee, the Homeless Working Group and the Human Rights Discussion Group are just a few.

But he has demonstrated countless times that these are more than just titles to him. He aspires to these leadership positions



for the simple reason that they give him the opportunity to make the world a better place, starting with the reason he is wearing the baseball cap.

"I shaved half my head for the United Way," he says, pulling off the hat and explaining that he left the back long so he would "look a bit more ridiculous" in hopes of bringing in more money. "Everyone is shaving their whole head nowadays," he says, adding that the tactic raised about \$150. "I'm happy with that, but two years ago, I just shaved off my sideburns and raised \$200."

Then there was Thanksgiving of 1997, Stephenson's first year at U of G. He didn't have the time or money to go home to Ottawa, so he stayed in his residence room. "I come from a close family, so it was a shock to me to be here alone on the holiday." After that experience, he decided to make Thanksgiving easier for other students who can't make it home and started a tradition of cooking a turkey and pasta dinner in residence.

"The first year I did it, we had about 15 people. This year, about 200 people showed up and the food disappeared very quickly. It was great to see. My parents miss having me come home, but doing this is so rewarding for me."

That type of commitment, coupled with his intelligence and ability to tackle difficult issues with respect and enthusiasm, is what makes Stephenson such an effective student leader, says Brenda Whiteside, associate vice-president (student affairs). "I love working with Mike," she says, adding that she is particularly impressed by the way he facilitates discussion on difficult and often volatile subjects.

"I haven't always agreed with him, but he always shows a great deal of respect for all opinions, even when he doesn't agree with you. He listens and appreciates all voices, and that shows a maturity far beyond his years."

To some, it might seem incongruous for a student who holds one of the most prestigious scholarships on campus — and one that often involves making formal appearances with high-ranking administrators — to be involved with student groups and initiatives that often put him at odds with those very same administrators. Stephenson doesn't see it this way.

"I have always considered my own beliefs to be my higher guiding authority. I would never allow a scholarship or a title to be a hindrance, to compromise what I believe."

He does admit that before being elected to the CSA, he had certain perceptions about the student group's relationship with the administration.

"I have found that most of it was hype. It's not so much animosity as it is just a difference of opinion at times. I think we accomplish great things when we work as partners. ... I freely admit that my views are not shared by all student leaders, but experience has taught me that it's better to work together to find a common ground."

That ability to focus on outcomes and a greater good has also caught the attention and earned the admiration of his professors. "Not only is Mike a good scholar, but he is also a good thinker," says Chris diCarlo, a sessional lecturer in the Department of Philosophy. "He doesn't just do what he wants.

He thinks about what is important, what things matter, and then he acts on them."

Stephenson's inquisitiveness impressed diCarlo long before the lecturer even knew his student's name. "I used to come home from classes and talk to my wife about the kid in the front row with the red visor. I am lousy with names, and I had 80 students in each class, so I got to know Mike like one gets to know a new city, by visual clues. But he would ask questions that would go outside the realm of what we were talking about in class, which showed a remarkable depth to his character. It's one of the reasons teachers teach — you see that glow in a student's face and know your message got across. And not only did they get it, but they added to it and brought something new to the discussion."

When he first arrived at Guelph, Stephenson planned to become a veterinarian, although given his focus on people, it's not surprising that he switched to human medicine. But a quick glance at his transcripts shows that he did not limit himself to studying the sciences. He enrolled in numerous courses outside his field, such as "History of the Islamic World" — "just because I didn't know anything about it. I think a lot of people don't choose classes for that very reason — they're worried they'll get a low mark. For me, if university has taught me anything, it's that we shouldn't shy away from what we don't know. This is our opportunity to learn about things just for pure knowledge."

His approach to learning comes as no surprise to Whiteside, who says it mirrors his philosophy about life and leadership. In his mind, intelligence is more than just getting good grades, she says. It also involves learning more and doing something with that knowledge, and applying it with common sense and maturity. That — along with his dedication to students — is why he is so well respected by his peers, she says.

I tell Whiteside how Stephenson seemed anxious about closing his office door for even an hour, just in case someone who happened by needed him. She says it's probably more than that.

"Transparency is important to him. It comes back to his commitment to honesty and integrity. I think for him, a closed door represents secrecy, and that is not a part of his life."

PHOTO BY MARTIN SCHWABE

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LETTERS

ENVIRONMENTAL ADAPTATION DOES NOT EQUAL EVOLUTION

We are writing in reference to the Nov. 28 article "Working at a Snail's Pace" about Prof. Elizabeth Boulding's interesting work on snail adaptation in response to predators. We wish her every success in the hope that her adaptation model will be helpful to the important task of saving other species from extinction. But the article perpetuates the common misunderstanding that environmental adaptation (natural selection) equals evolution.

Prof. Boulding's model appears to be based on small phenotypic changes that are possible within the limits of the snail genome and can occur in a very short period of time (10 generations). Large transformations attributed to evolution require a different process, which apparently has yet to be described. Although the distinction between environmental adaptation and evolution is well known, school and university texts continue to use irrelevant examples of both natural and artificial selection to illustrate evolution. Prof. Boulding's snail experiment is a good example of this important distinction.

She has created an environment in which snails with thick shells have a better chance to survive and repro-

duce. This is similar to selective breeding, which is used, for example, to increase milk production of dairy cows. In Darwin's time, selective breeding as described in the first chapter of *Origin of the Species* could reasonably be assumed to illustrate a mechanism for larger transformations, but we now know that both artificial and natural selection are conservative processes that operate within the limits of existing genomes.

Prof. Boulding may observe increased average shell thickness in succeeding generations, but only if the genes for thicker shells already exist in the gene pool. Natural and artificial selection can select only for phenotypes of existing genes. When her snails are unthethered and returned to their original environment, they will, in a few generations, revert back to thin shells. That's not neo-Darwinian evolution. Evolution is not about limited and reversible changes in the thickness of snail shells or the size of finch beaks; it is about macro transformations required to create complex systems from simple molecules.

Prof. Bonnie Mallard, Pathobiology
Prof. Art Hill, Food Science

Student Athletes Tops in Sport, Academics

U of G boasts 65 academic All-Canadians among its student athletes for 2000/2001. Academic All-Canadians are those who compete in a varsity sport at the Canadian Interuniversity Sport level while maintaining a cumulative average of 80 per cent or higher during the school calendar year.

In basketball, the honour goes to Leanne Rowthorn, Jaclyn Beitz, Mark Halfpenny and Jason Wenzler. Academic All-Canadians in cross-country and cross-country track are Jenn Holliday, Laurie Mutton, Kathleen Nolan, Robin Adams, John Booth, Andrew Brown, Lee Glazier, Christopher McLaren, Pe-

ter Sullivan, Trent Stellingwerf and Philip Wiebe. Field hockey honourees are Krista Barfoot-Kinsie, Shannon Baskin and Aviva Leber. Football honourees are Tyson Beach and Sean Spender.

Academic All-Canadians in hockey are Karen Halliday, Sarah Holt, Lindsay Hurlburt, Stephanie Johnston and Tanja Vlahovich. In rugby, the honour goes to Lindsay Bernrot, Jordan Freeman, Brooke Hilditch, Suzanne Kramer, Sarah Ledwidge, Jenn Lewis, Lesley Moisey, Elizabeth Pathak, Paula Russell, Leigh Anne Swayne, Seanna Swayne and Sarah Willie. Soccer honourees are Kimon Issigons,

Richard Perkins, Brent Vanderkrak, Jennifer Black, Nathalie Brothers, Terrah Camilleri, Jael Ealey (soccer and track), Andrea Flagler, Laura Jenner and Jennifer Wheeler.

In swimming, the honour goes to Daniel Lindquist, Mathew Walker, Sarah Burke, Tania Corbett, Jessica Lawrence, Meghan Linauskas and Katie Stuart. Track honourees are Shawn Voording, Sarah Glover and Gaby Szanto. Academic All-Canadians in volleyball are Paul Cheeseman, Christopher Geddis, Clarke Mathany, Heather Bast, Jennifer Heintz and Jill Welshman. Wrestling honourees are Amy Tanaka and John Ewing.

Turn to Radio for Winter Weather Information

U of G Web site will also contain up-to-date details

WITH THE unusually balmy weather we've been having this fall, no one wants to think about the inevitable snow and winter storms coming our way, but come they will. And when they do, the best source of information about whether or not the University is open for business is the radio, says Nancy Sullivan, vice-president (finance and administration). Radio stations in Guelph, Kitchener-Waterloo and Toronto are immediately notified if the president decides to shut U of G because of bad weather or an emergency, she says.

In addition, area TV stations are notified of any closure, says Sullivan, and U of G's main home page on the Web will contain up-to-date information on the weather situation and will be updated regularly as required. The campus switchboard will also have a recorded message about the closure, but if you try calling in, you'll probably find the line jammed with other people trying to get through.

The president or a designate decides whether to close the University or restrict activities on the basis of a combination of factors, such as the amount of snow, the forecast and road conditions. The decision is made on the advice of the executive director of Facilities and Hospitality Services, who may consult with other institutions in the area, local police and transportation services and area weather information services.

If the president decides to close the University, the executive direc-

tor of Facilities and Hospitality Services advises Security Services and the director of Communications and Public Affairs, who will initiate the closing procedures. If the closure is outside regular business hours, action will be taken before 7 a.m. to contact radio and television media, post information on the Web and inform Telecommunications Services to change the switchboard greeting. If the closure occurs during regular business hours, additional steps will be taken to notify key campus units by telephone and all departments by fax broadcast. Messages will also be posted on library terminals and main entrances to University buildings, advising students and staff to monitor local radio and TV stations.

The director of Communications and Public Affairs will also check the University's Web calendar and inform organizers of any events or large gatherings planned for that day or evening.

With the exception of essential services, a campus closing is firm and not left to the discretion of individuals or departments unless special arrangements are made with the president and Security Services. Essential services are Student Housing Services, Facilities and Hospitality Services, Telecommunications Services/switchboard, Computing and Communications Services, Security Services, Student Health Services, Child-Care Services, Research Station Operations, Animal-Care Services, the Veterinary Teaching Hospital and on-campus animal units.

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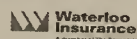
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Great Wine Sees the Light

Growing grapes on trellis systems yields more fruit, heightens flavour



Justine Vanden Heuvel has found that growing grapes on trellis systems maximizes light to the fruit, which yields more grapes and heightens their flavour.

PHOTO BY MARTIN SCHWALBE

WHEN IT COMES to growing grapes for winemaking, researchers say let there be light.

Justine Vanden Heuvel, a PhD student in the Department of Plant Agriculture, has found that growing grapes on trellis systems maximizes light to the fruit, yielding more grapes and heightening their flavour.

She's worked with more than 2,000 vines, alongside advisers Helen Fisher of the Vineland Research Station and Prof. Alan Sullivan, to achieve the ultimate trellising system.

"I hope my research will give grape growers in all cool-climate areas a better understanding of how to grow grapes that will make high-quality wine," Vanden Heuvel says.

Historically, it was thought that a higher yield of grapes meant lower-quality fruit. But in the 1980s, a New Zealand researcher reported that the amount of fruit on a vine was not actually an indicator of quality. Since then, emphasis has turned to controlling the vigour of a vine, which is the size of the vine and its productivity. Trellising is one way of doing so; it involves manipulating the architecture of the vine to control vigour and increase the light exposure to the grape clusters.

High fruit quality depends on light exposure on clusters because light allows the fruit to accumulate sugar (sugar is an important measure of fruit quality because it translates directly to alcohol level fermentation). Vanden Heuvel has confirmed that high yield and high fruit quality can exist at the same time.

Now, she's examining the vigour of the vine and yield and the quality of the fruit and the wine that comes from it. She's testing the trellising systems for two cultivars, the white grape Chardonnay and the premium red wine grape Cabernet franc.

Vanden Heuvel's comprehensive study includes four traditional-type trellis systems and two of their modern counterparts. She is examining the density of the vine using a light sensor to measure the penetration of light into the internal vines of the plant. The research includes testing the effectiveness of alternative contemporary trellis systems.

She has discovered that modern trellis systems increase grape quality because they allow more light penetration to the vines.

Traditional trellising zones tend to concentrate the fruiting zone — where the fruit grows on the shoots,

says Vanden Heuvel. Her research compares the traditional trellising systems with the newer systems in the Niagara Peninsula.

"I'll be able to tell grape growers why certain trellising designs function better for both productivity and wine quality," she says.

Vanden Heuvel was invited to present her current findings to the American Wine Society in South Carolina in November.

This research is sponsored by the Ontario Grape and Wine Adjustment Program, the Ontario Ministry of Agriculture, Food and Rural Affairs, the American Wine Society Educational Foundation and the eastern section of the American Society of Enology and Viticulture.

BY KATIE MEYER
SPARK PROGRAM

Weight-Loss Study Seeks Participants

Researchers will compare high- and low-protein diets

WORRIED ABOUT putting on weight over the winter holidays? You can start taking it off in January by participating in a nutritional weight-loss study being headed by two U of G graduate students.

Joy Renders and Rachel Sherfey, master's students in the Department of Human Biology and Nutritional Sciences, are looking for 80 people to take part in a study comparing the results of high- and low-protein diets in combination with or without exercise. Participants should be 20 to 40 pounds overweight and will be analysed for weight loss, fitness and body composition.

"There are a number of high-protein diets on the market that promote weight loss," says Renders, who is also a fitness consultant and personal trainer. "These diets usually suggest doubling the recommended nutrient intake of protein, and most studies have shown that people on these diets lose weight, but they have never looked at what role exercise plays and whether the participants are gaining in fitness."

Renders and Sherfey's study will follow up on earlier research by Prof. Kelly Meckling-Gill, who is also the faculty adviser on this project. Meckling-Gill's earlier study, which she also participated in, examined the effects of low-carbohydrate diets. Her research found that even people who didn't lose weight (she lost 30 pounds) showed overall health improvement, including lower serum cholesterol and blood pressure.

"Prof. Meckling-Gill's study didn't look at the role exercise might

have played in that process, which is what we hope to determine," Sherfey says. Adds Meckling-Gill: "There aren't many studies out there that look at physical activity in combination with diet in controlled trials. This will give the students excellent research experience in the two most important lifestyle factors that relate to chronic disease elements: diet and physical activity. It's an ambitious project."

Study participants will be randomly assigned to one of four groups: a high-protein diet in combination with exercise, a high-protein diet without exercise, a low-protein diet with exercise and a low-protein diet without exercise. The program will run for 12 weeks and will include free weekly nutritional counselling and a free 12-week membership to the Athletics Centre. Participants will also receive food lists of favourable and unfavourable high-protein food choices and guidelines that outline how much protein and how many calories should be consumed each day. Participants will be monitored for body composition, weight loss, metabolic rates and blood pressure. At the end of the study, a summary of individual and pooled results of the trial will be made available.

"We look at this as helping people make lifestyle changes," says Renders. "The hope is that once people finish this study, they will have survived that hard first-three-months phase of an exercise and nutrition program and stick with it."

To participate in the study or to obtain more information, call Renders and Sherfey at 829-6847.

BY LORI BONA HUNT

United Steelworkers

Dear Friends in the University of Guelph Community:

We are your support staff colleagues and co-workers. We are proud of our contributions to this vibrant institution that is the University of Guelph. We share the hope of all members of the University community — be they other University staff, students, faculty, alumni, or senior administration — that the University of Guelph remain a beacon of excellence, and a contributor to the quality of Canadian life.

For many years we have had a voice in the decisions that affect us — that voice has been UGSA. Recently, UGSA set in motion a process for our members to evaluate and vote on a well-planned merger with the Steelworkers. We embarked upon this path in order to strengthen our voice in the decisions that affect us. We are honoured and happy to report that our membership voted in favour of this merger by 95% (at a meeting held November 22 at which set a record for membership attendance).

Recent years have brought many changes into our lives as university employees.

This merger will build upon the many achievements of UGSA and provide to University of Guelph staff the clout and resources of the Steelworkers.

In 1998, the administrative and technical staff at the University of Toronto voted to join the Steelworkers. We at the University of Guelph have much in common with the staff of other universities — and this relationship with the University of Toronto staff through the Steelworkers will be of great mutual benefit.

We deeply appreciate the support and encouragement we've received from other members of the University community and we encourage non-union staff to look carefully at the benefits of union membership.

Our merger is about ensuring that our voices are heard and our concerns are respected. It's about making sure we have the means to address the needs of the University's support staff. We look forward to working with all members of the University community.



Sincerely,
University of Guelph Staff Association/Steelworkers



ALUMNI AFFAIRS AND DEVELOPMENT PHOTO CONTEST

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Continued from page 2

chemistry and microbiology teaching as well as growth chambers on what is now a parking lot on the site. It will also see the addition of the Advanced Analysis and Training Centre, research facilities for biochemistry and microbiology and greenhouses.

Between June and September 2004, the Chemistry and Microbiology Building will be demolished to make way for the second phase, which will see the addition of facilities for zoology, botany and molecular biology and genetics teaching and research, as well as administrative suites, counselling and student government centres and central facilities.

The triangular-shaped complex will be connected to the library and the MacNaughton Building to the north and will be close to the Reynolds Building to the east and Axelrod to the west. It will also have a large courtyard at its centre, which may be covered if additional funds can be raised for that purpose.

Once built, the science complex

will become the centre for physical, biological and computational sciences at U of G. Next, the University will add a nearby social sciences complex and expand facilities for the humanities. The renovations to Axelrod and MacKinnon, which are part of this later development, would possibly involve the move of four departments and two centres from the College of Social and Applied Human Sciences into Axelrod, as well as the Office of Research. The renovation of MacKinnon would see improved facilities for an expanded College of Arts. Details on these moves will require a considerable amount of discussion with departments and colleges, Summerlee said.

In terms of next steps on the science complex, the provost reported that detailed architectural drawings are being produced. The University is also developing financing plans as it determines the sources of the funding that needs to be raised and prepares a major funding application for the Canada Foundation for Innovation.

Carousel Rides Again

After three-year hiatus, journal of poetry, short fiction, visual artwork returns

U OF G'S *Carousel* journal has come back from the verge of extinction to deliver to the world its 13th issue of poetry, short fiction and visual artwork.

After a three-year publishing hiatus, the new volume made its debut Dec. 2 with a reading at The Bookshelf in downtown Guelph. The publication features the work of some 40 artists spread over 150 pages and will be distributed to booksellers and libraries across Canada in January.

Included in the journal is the short story *Reverse Wedding March* by Prof. Stephen Henighan, Languages and Literatures, and *I've Got a Hanking* by English MA graduate Michelle Berry.

The journal invites submissions of unpublished Canadian works, with seasoned artists such as Michael Redhill and Tim Taylor, who were

both nominated for the Giller Prize and Governor General's Award this year, appearing alongside emerging talent.

Carousel 13 was co-edited by Lisa Schincariol, a sessional lecturer in the School of Literatures and Performance Studies in English, and Robin Elliott, who completed her BA in English earlier this year. They and a dedicated group of undergraduate and graduate student volunteers spent a year bringing the issue to fruition.

"It's exhilarating and gratifying" to see the book published, Schincariol says. "It's created a training ground for students in all facets of the bookmaking process, and it represents the University well because we can lay claim to a publication of such quality."

Three of the student volunteers for *Carousel 13*—Rachel Freedman,

Sarah Simpson and Erin Wallace—have stepped up to manage the next issue of the journal. Work is under way on *Carousel 14*, with the goal of a spring launch.

The student-run *Carousel* Club published the journal annually from 1986 (it started as a photocopied, stapled manuscript) to 1998, when volunteer support temporarily died off. Mark Stephen, who has since graduated with an MA in English, resurrected the concept in the fall of 2000 as the Central Student Association debated what to do with the club's old files and publications.

After the production of issue 13 began, the club put forward a successful referendum request for increased student funding, which will help ensure the journal's continued development.

BY STACEY CURRY GUNN

Ignore Suspicious E-mails, Police Advise

LAST WEEK, a number of people on campus received e-mails related to a long-standing fraud. If you receive an e-mail from a foreign country asking you to hold money in your bank account and receive millions in return, you should just ignore it, says Robin Begin, community liaison officer in Security Services.

"This is a long-standing fraud that has been investigated by the FBI and the RCMP, and the RCMP are

now advising people just to delete any messages they receive," she says.

One recent e-mail claims to be from Alhaja Yayah Abacha, the second wife of Nigeria's former head of state, the late general Sani Abacha. She claims that all of her properties have been seized and bank accounts frozen, except for \$60 million US that has been moved into a trust account in Ghana. You are then asked to have the money transferred to your own bank account and you will receive \$15 million for doing so.

Nominees Sought for Annual Alumni Recognition Awards

THE U OF G Alumni Association invites nominations for its three annual awards of excellence—Alumnus of Honour, Alumni Medal of Achievement and Alumni Volunteer Award.

The Alumnus of Honour award celebrates the achievements of alumni who have brought great honour to their alma mater through professional, community and personal endeavours. The Alumni Medal of Achievement recognizes a graduate of the last 15 years who has achieved excellence through contributions to

country, community, profession or the world of arts and letters. The Alumni Volunteer Award honours alumni who have demonstrated loyalty and commitment to their alma mater by supporting U of G through volunteer work.

Nominations for these awards are due Feb. 8 and should be submitted to Mary Ann Grape, chair of the UGAA Awards Committee, c/o Andrea Pavia, Alumni House.

Nominations are also sought for the OVC Distinguished Alumnus award, which recognizes an OVC graduate who has brought honour to the college and fellow alumni through leadership and service to country, science, education, profes-

sion or alma mater. Nominations should be submitted by Feb. 23 to committee chair Grant Scherer, c/o Pavia. Nomination forms for all four awards are available from Pavia at Ext. 4430.

In addition, the School of Hotel and Food Administration seeks nominees for the George Bedell Award of Excellence, which is presented to a HAFSA graduate who best represents the school in professionalism, achievement and contributions to the hospitality industry. Nominations are due Feb. 28 and should be submitted to committee chair Jeff Dover, c/o Laurie Malleau, Alumni House. For more details, call Malleau at Ext. 2102.

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Report Tallies Walkerton Costs

Continued from page 1

spent more than \$650,000 for things like bottled water and replacing equipment. In addition, the cost of emergency services such as water-main replacement and rehabilitation was more than \$9 million.

The study does not include insurance, court settlements or any other type of compensation because those are considered transfers of monies rather than a loss of resources, Livernois says.

"We're saying the value of preventing a future water tragedy similar to Walkerton is \$155 million. This report is intended to provide a context for future action, allowing people to weigh the costs and benefits of investing resources into providing safer drinking water."

Livernois says the most challenging part of the study was keeping track of all the details. "It was true bean counting. We wanted to make sure we didn't miss anything. Because it's so sensitive and political and because there are legal and emotional issues, I felt more pressure and demands to make sure I did the job correctly."

He adds that he also felt a special commitment to the residents who took part in the surveys.

"Almost everyone was very cooperative and friendly and very emotional. I think a lot of people found it a cathartic experience to have someone listen and write down and record their trials and tribulations."

BY LORI BONA HUNT

CLASSIFIEDS

FOR SALE

Teak Scandinavian-style queen-sized bed with foam mattress, matching dresser, attached night tables, Ext. 3235, 821-3578 evenings or wfurlong@uoguelph.ca.

Computer desk, cream with wood trim, gently used, send e-mail to warthur@ovc.uoguelph.ca.

1992 Mazda 323, five-speed, two-door hatchback, red, 210,000 kilometres, well maintained, certified and e-tested, leave message at 767-0122.

Sears basic washer/dryer, two years old; Westinghouse portable apartment-sized dishwasher, one year old; entertainment/bookcase unit, brown with glass door and light; nine-drawer dresser with mirror, 763-2390 evenings.

Three living room tables; three-cushion chesterfield, beige and brown; chrome TV stand; kitchen table and chairs, chrome legs with wood-look top; coffee table, Ext. 3561 or 821-5412 weekday evenings.

Youth bedroom set: bed, mattress, dresser, bookshelf, desk, chair, Ext. 2167.

Ikea furniture: sofa bed, tan and cream, excellent condition; desk, metal and redwood with shelf extension; bookshelf with glass doors; queen-sized futon, pine frame, like new, 836-0011.

Three-piece Sklar sofa set, brown with gold floral pattern; two Paradigm 7SE speakers and two Paradigm 3SE speakers, both with Atlantis stands; carved mahogany

three-drawer desk; antique oak buffet, Joanne, 837-1069 after 5 p.m.

House in old University area, 2½-storey brick, four bedrooms, two baths, close to campus, original oak hardwood floors, fireplace, French doors, large lot with perennial gardens, Marian, 824-0044.

Bauer 3000 Plus hockey skates, new, size 1½ EE (youth), leave message at 763-0206 or send e-mail to jlaniga@uoguelph.ca.

Christmas trees, harvest your own or freshly cut, 15 minutes north of Guelph on Highway 6, Stan, 843-5915.

256-MB RAM, great price, willing to install for small fee, leave message at 827-9221.

WANTED

One-bedroom furnished apartment or furnished bedroom in a two-bedroom house for winter semester for faculty member, 403-247-4198 or rchoudhury@home.com.

Used ping pong table, Barb, Ext. 2043 or 821-7069.

Experienced female driver to drive student to Guelph from school in south Kitchener, Monday to Friday at 3:20 p.m., Helen, 824-2634.

Furnished bachelor apartment in quiet neighbourhood for mature, quiet student for Dec. 15 or Jan. 1, with laundry and separate entrance, bath and kitchen, preferably within 30-minute walk from campus, non-smoker, no pets, reasonable rent with parking, send e-mail to sunflowersjo@hotmail.com.

Bartender to serve at social functions one or two weekends a month from May to December 2002, long weekends are a must, Margaret, 821-9273 or margaret.bird@sympatico.ca.

FOR RENT

Three-bedroom townhouse, two baths, four appliances, parking, close to campus and shopping, some furnishings available, 905-541-2735 or send e-mail to edic@mountainable.net.

Quiet home in the west end to share for winter semester, single female preferred, non-smoker, parking available, \$650 a month inclusive, 826-7400.

Furnished two-bedroom holiday home in south of France (Antibes French Riviera), available weekly or monthly; furnished one-bedroom apartment in southwest Paris for short-term rental, walking distance to subway and shops, Nicole, 836-6745 or fnmoll@webtv.net.

AVAILABLE

Free University of Wisconsin PhD hood, Tricia, Ext. 2296.

Guitar lessons for students six and older, sight reading and preparation for RCM exams, located near campus, reasonable rates, Wilma or Bob, 821-9345.

Certified arborist for pruning and removal of trees, three years' experience, 821-1427 or visit the Web site www.treeworks.ca.

Free items: student desk, four kitchen chairs, black and white TV, Ext. 8786 or 763-2246.



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ARBORETUM

The Arboretum's Theatre in the Trees presents the comedy *Ghost of a Chance* by Flip Kobler and Cindy Marcus Dec. 15. Doors open at 6 p.m., the buffet is at 6:30 p.m. and showtime is 8 p.m. Cost is \$49. To order tickets, call Ext. 4110.

John Daicopoulos, an amateur astronomer, will lead a two-evening workshop on winter stargazing Jan. 15 and 17 at 7 p.m. Cost is \$25. Registration and payment are required by Jan. 2. Call Ext. 4110.

Naturalist Chris Earley presents a "Night Stalker's Owl Prowl" Jan. 25 or 26 at 7 p.m. at the Nature Centre. Learn about the behaviour and adaptations of owls in the Guelph area. The program will include a walk outdoors. Cost is \$12 for adults, \$6 for children or \$30 for a family of four. Registration and payment are required by Jan. 18.

ATHLETICS

The Hockey Gryphons are hosting an invitational meet Dec. 28 and 29. On Dec. 28, Waterloo plays Wilfrid Laurier at 4 p.m. and Guelph plays St. Clair at 7 p.m. On Dec. 29, the losers of Saturday's games face off at 4 p.m., and the winners, at 7 p.m. The men's team is also at home to Laurier Jan. 10 at 7:30 p.m. The women's hockey team hosts Brampton Jan. 6 at 7 p.m.

McMaster comes to campus Jan. 12 to play the Gryphon basketball teams, with the women's game at noon and the men's at 2 p.m.

The Guelph session of the Guelph/Waterloo invitational swim meet is Jan. 12 at 4:30 p.m.

NOTICES

The 21st annual Organic Agriculture Conference will be held Jan. 25 to 27 in the University Centre. This year's theme is "Organic Agriculture and the Farm Economy." The conference will include workshops, seminars, a trade show and a keynote talk by Gunnar Rundgren, president of the International Federation of Organic Agriculture Movements. The conference will also feature a public forum and panel discussion on "Can Organics Save the Farm Economy?" Jan. 25 at 7 p.m. in the Whippletree. Cost of the forum is \$10. For more information about the conference, call Ext. 2558.

The deadline to submit nominations for the Lincoln Alexander Medal of Distinguished Service is Dec. 31. For nomination information, call Mollie McDuffe-Wright at Ext. 6760.

The Department of Athletics will celebrate the official opening of the Gryphon Dome Jan. 10 at 5:30 p.m. Everyone is invited.

THESIS DEFENCES

The final examination of PhD candidate Amanda Wright, Food Science, is Dec. 12 at 10 a.m. in Food Science 128. The thesis is "The Effect of Minor Components on Milk Fat Crystallization Behaviour, Microstructure and Mechanical Properties." The adviser is Prof. Alejandro Marangoni.

The final examination of MA candidate Djimis Milius, Philosophy, is Dec. 13 at 2 p.m. in MacKinnon 132. The thesis is "Science, Commerce and the Human Genome: Values in 'Big Science.'" The adviser is Prof. David Castle.

The final examination of Ann Ellis, an M.Sc. candidate in the Department of Family Relations and Applied Nutrition, is Dec. 14 at 1:30 p.m. in HAFa 243. The thesis is "The Infant Feeding Decision-Making Process of Adolescent Mothers." The adviser is Prof. Donna Lero.

The final examination of Lisa DiValentino, an MA candidate in the Department of Philosophy, is Dec. 14 at 2 p.m. in MacKinnon 421. The thesis is "A Bridge Between Two Theories: Phenomenological Insights Into Health and Illness." The adviser is Prof. Jay Newman.

The final examination of M.Sc. candidate Tania Roberts, Chemistry and Biochemistry, is Dec. 14 at 2 p.m. in MacNaughton 222. The thesis is "Analysis of the Interaction Between Exotoxin A and Eukaryotic Elongation Factor 2." The adviser is Prof. Rod Merrill.

The final examination of Stephanie Yue, an M.Sc. candidate in the Department of Animal and Poultry Science, is Dec. 14 at 2 p.m. in Animal Science and Nutrition 141. The thesis is "Frustrated Nesting Behaviour: Relation to Extra-Cuticular Shell Calcium and Bone Strength in White Leghorn Hens." The adviser is Prof. Ian Duncan.

The final examination of M.Sc. candidate Keely Ingrey, Pathobiology, is Dec. 17 at 2:30 p.m. in Pathobiology 101. The thesis is "A Search for Bacteriophage-Encoded Superantigens in *Streptococcus canis*." The adviser is Prof. John Prescott.

The final examination of Zahra Alizadeh, an M.Sc. candidate in the Department of Pathobiology, is Dec. 18 at 9:30 a.m. in Pathobiology 101.

The thesis is "Biological Effect of Varying Peptide Binding Affinity to *BoLA-DRB3.2*2703 Allele*." The adviser is Prof. Bonnie Mallard.

The final examination of M.Sc. candidate Naomi Stock, Chemistry and Biochemistry, is Dec. 18 at 9:30 a.m. in MacNaughton 121. The thesis is "Electrocatalytic Dechlorination of Atrazine and an Investigation of the Phytotoxicity of Dechlorinated Atrazine." The adviser is Prof. Nigel Bunce.

The final examination of M.Sc. candidate Cynthia Vo, Family Relations and Applied Nutrition, is Dec. 18 at 10 a.m. in HAFa 331. The thesis is "Vietnamese Immigrant MSM: Cultural and Personal Influences on Sexual Health." The adviser is Prof. Richard Barham.

The final examination of Davor Ojic, a PhD candidate in the Department of Pathobiology, is Dec. 18 at 1:30 p.m. in Pathobiology 101. The thesis is "Genomic and Transcriptional Analyses of Fowl Adenovirus 9 and Construction of Recombinant Viruses." The adviser is Prof. Eva Nagy.

The final examination of PhD candidate Philip Byrne, Pathobiology, is Dec. 19. The seminar is at 9 a.m. in Pathobiology 2152, followed by the oral exam in Room 101. The thesis is "Pathophysiology of Bacterial Gill Disease in Trout." The advisers are Profs. Tony Hayes and Heather Ferguson.

The final examination of Marlene Ross, an M.Sc. candidate in the Department of Zoology, is Dec. 20 at 9 a.m. in Axelrod 265A. The thesis is "Effects of Low-Head Barrier Dams on Species Richness in Streams

Within the Laurentian Great Lakes Basin." The adviser is Prof. David Noakes.

The final examination of M.Sc. candidate Michelle Chartrand, Chemistry and Biochemistry, is Dec. 19 at 9:30 a.m. in MacNaughton 222. The thesis is "Electrochemical Remediation of Acid Mine Drainage." The adviser is Prof. Nigel Bunce.

The final examination of Jennifer Spronck, a PhD candidate in the Department of Human Biology and Nutritional Sciences, is Dec. 20 at 1 p.m. in Animal Science and Nutrition 336. The thesis is "Niacin Deficiency, Poly (ADP-ribose) Polymerase, P53 and Chromosomal Instability in Rat Bone Marrow Cells In Vivo." The adviser is Prof. James Kirkland.

COMMUNITY EVENTS

The Waterloo-Wellington Wildflower Society meets Dec. 19 at 7:30 p.m. at the Arboretum Centre.

Afghan physician Sima Samar, who last week was named minister for women's affairs and vice-chair in Afghanistan's new transitional government, will speak about the urgent need for human rights for women and children in her country Dec. 15 at 7 p.m. at the Guelph Little Theatre, 176 Morris St. The talk will be facilitated by Prof. Janet Wood of the Department of Microbiology and will be preceded by a reception at 6 p.m.

"Christmas Cheer" is the theme of a concert featuring the Guelph Chamber Choir, community choirs and a brass quintet Dec. 15 at 8 p.m. at the River Run Centre. For tickets, call 763-3000.

Award-Winning Cookbook Pays Tribute to OAC

Author's food links with University of Guelph date back two decades

FOR CANADIAN "culinary activist" Anita Stewart, U of G is a rich smorgasbord of food innovation and inspiration. And she gives the University due recognition for its contributions to Ontario's — and Canada's — food heritage in her latest book, *Flavours of Canada: A Celebration of the Finest Regional Food*.

The book, published last year, recently won two awards in the fourth annual Cuisine Canada National Culinary Book Awards — a gold for its contribution to Canadian food culture and a bronze in the English-language cookbook category.

The culmination of nearly two decades of Stewart's culinary travels, *Flavours of Canada* lovingly details unique regional specialties from coast to coast. Its 150 recipes are accompanied and enhanced by descriptions of each province's culinary character and history.

Stewart tells the stories of the researchers, farmers, producers, artisans, chefs and winemakers who contribute to our collective gastronomic identity.

The Ontario chapter lauds the Ontario Agricultural College research programs for introducing strains of grains, fruits and vegetables that contribute to the province's food-and-drink mosaic, including the college's own beer from a famous strain of barley developed in 1910.

"From ice cream and cheese making to plant breeding and farm management, the University can claim dozens of success stories," Stewart writes.

Her connection with U of G dates back two decades, to the early 1980s when she took a course on the history of food with HAFa professor Jo Marie Powers, who is now retired. Powers suggested they write a cookbook together about Ontario farm-

ers' markets, and the two embarked on a friendship and creative relationship that has lasted for years.

Thirteen books later, Stewart is considered one of Canada's foremost food journalists. She is also the founder of Cuisine Canada, the only alliance of its kind linking people in the food industry, from farmers and nutritionists to chefs and restaurateurs. Its mission is to raise awareness of, and pride in, Canada's culinary uniqueness — a cause she is passionately committed to.

Her passion and creative drive have also spawned other projects in celebration of the University's agricultural feats.

Stewart worked with the Office of Research to publish the U of G Food Inventory in 2000, which tells the story of Guelph researchers and their creations. She is now working with Profs. Michael Haywood and Joe Barth, HAFa, to develop a proposal

to create a chair at Guelph that will focus on culinary tourism and regional economic development, a first in North America.

Stewart also crafts menus showcasing Guelph's agri-food research achievements for major events such as OAC's 125th-anniversary celebration, the opening of the Food Science Building and this year's President's Luncheon for University supporters.

"She's a wonderful champion for the University and the research we do here," says Prof. Rob McLaughlin, vice-president (alumni affairs and development) and former dean of OAC. He notes that Stewart's activism extends beyond promoting distinctly Canadian recipes to promoting the Canadian ingredients that make those recipes special. "It's a celebration of Canadian agri-food."

Most recently, Stewart has

teamed up with the executive chef at Toronto's Royal York Hotel to incorporate U of G foods into the menu for chancellor Lincoln Alexander's 80th-birthday tribute dinner Dec. 13.

"The ingredients for this occasion have been grown and harvested from across Ontario for the express purpose of paying tribute to Lincoln Alexander," says Stewart. The dinner will include such delicacies as smoked "cyber-tomato" chutney with tomatoes grown from seeds that have orbited the Earth, OAC Millennium asparagus and beef tenderloin with OAC Gold beer sauce.

Like all Stewart's other projects, the meal will celebrate distinctive and delicious food while honouring the people who have worked to produce it. These feasts "make the connection between what's on our plate and who's done it for us," she says.

BY STACEY CURRY GUNN